

USING CUSTOMISED IMAGE PROCESSING FOR NOISE REDUCTION TO EXTRACT DATA FROM EARLY 20TH CENTURY AFRICAN NEWSPAPERS

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Contents	Page
Declaration	5
Abstract	6
Acknowledgements	7
Accompaniments	8
MATLAB® Files	8
R File	8
List of figures	9
List of tables	13
Abbreviations	14
1. Introduction	15
1.1 The Objective	15
1.2 The Document Processing Pipeline and Image Noise	16
1.2.1 The Document Processing Pipeline	16
1.2.2 When Conversions Fail	19
1.2.3 An exploration of noise	20
1.2.4 Investigating a Noise Reduction Technique	22
1.3 The Concepts	24
1.3.1 Maximally Stable Extremal Regions	24
1.3.2 Machine Learning Classifiers	25
1.3.3 Levenshtein Distance algorithm for approximate text matching	26
1.4 Resources and Tools used	27
1.4.1 African Newspapers Database	27
1.4.2 OCR Processing Tool	27
1.4.3 MATLAB®	27
1.5 Organisation of dissertation	29
2. Background Review	30

2.1 Historical document pre-OCR image processing	30
2.2 Maximally Stable Extremal Regions (MSER) for Text Detection	32
2.2.1 MSER in Scene Text Detection	32
2.2.2 MSER with classifiers	33
2.2.3 Custom Applications	34
3 Technique and Testing Methodology	36
3.1 Technique	36
3.1.1 Classifier Identification Process	37
3.1.2 Processed Image Dataset Generation	40
3.1.3 OCR Process	42
3.2 Testing Methodology	43
3.2.1 Data	43
3.2.2 Methodology	47
4. Results Analysis	51
4.1 Initial Test Run Results	51
4.2 Investigations	54
4.2.1 Broken Characters	55
4.2.2 Misread Layout	62
4.3 The Classifiers	64
4.3.1 Ensemble Bagged Trees	65
4.3.2 Cubic KNN	69
4.3.3 Post-Classifier-Selection	70
4.4 The effect on noise	70
4.4.1 Ink bleed-through	70
4.4.2 Ink flecks	71
4.4.3 Ink blackouts	73
5. Conclusions	74
5.1 Future Recommendations	74

5.1.1 Further classifier improvement	74
5.1.2 Classification for layout elements	74
5.1.3 Identify elements for restoration	75
5.2 Summary Conclusions	78
6. References	80
Appendix A	84
Appendix B	199
B.1 Original Images before processing was applied	199
B.2 Processed images	212
Appendix C	225
C.1 MATLAB® code files	225
C.2 R code file	229
Appendix D	232
Appendix E	236

Declaration

I declare that this research report is my own unaided work. It is being submitted to the Degree of Master of Science to the University of the Witwatersrand, Johannesburg. It has not been submitted before for any degree or examination to any other University.

.....

(Signature of Candidate)

..... day of year

Abstract

The images from the African articles dataset presented challenges to the Optical Character Recognition (OCR) tool. Despite successful binerisation in the Image Processing step of the pipeline, noise remained in the foreground of the images. This noise caused the OCR tool to misinterpret the text from the images and thus needed removal from the foreground. The technique involved the application of the Maximally Stable Extremal Region (MSER) algorithm, borrowed from Scene-Text Detection, and supervised machine learning classifiers. The algorithm creates regions from the foreground elements. Regions are classifiable into noise and characters based on the characteristics of their shapes. Classifiers were trained to recognise noise and characters. The technique is useful for a researcher wanting to process and analyse the large dataset. They could semi-automate the foreground noise-removal process using this technique. This would allow for better quality OCR output, for use in the Text Analysis step of the pipeline. Better OCR quality means less compromises would be required at the Text Analysis step. These concessions can lead to false results when searching noisy text. Fewer compromises means simpler, less error-prone analysis and more trustworthy results. The technique was tested against specifically selected images from the dataset which exhibited noise. It involved a number of steps. Training regions were selected and manually classified. After training and running many classifiers, the highest performing classifier was selected. The classifier categorised regions from all images. New images were created by removing noise regions from the original images. To discover whether an improvement in the OCR output was achieved, a text comparison was conducted. OCR text was generated from both the original and processed images. The two outputs of each image were compared for similarity against the test text. The test text was a manually created version of the expected OCR output per image. The similarity test for both original and processed images produced a score. A change in the similarity score indicated whether the technique had successfully removed noise or not. The test results showed that blotches in the foreground could be removed, and OCR output improved. Bleed-through and page fold noise was not removable. For images affected by noise blotches, this technique can be applied and hence less concessions will be needed when processing the text generated from those images.

Acknowledgements

I would like to thank Prof. Estelle Trengove from the Faculty of Engineering and the Built Environment and Prof. Isabel Hofmeyr from the Faculty of Humanities for supporting and funding this research.

Accompaniments

This document is expected to be accompanied by 1 CD which includes a copy of the MATLAB[®] code files used to carry out the research, and the R code file used to do the text comparisons. The code from these files can also be found in Appendix C.

MATLAB[®] Files

The MATLAB[®] files can be run in the MATLAB[®] program. A trial version of MATLAB[®] can be downloaded from:

https://www.mathworks.com/programs/trials/trial_request.html

The required packages can be downloaded at:

- **Image Processing Toolbox:**
<http://www.mathworks.com/products/image/>
- **Computer Vision System Toolbox:**
<http://www.mathworks.com/products/computer-vision/>
- **Statistics and Machine Learning Toolbox:**
<http://www.mathworks.com/products/statistics/>

There are three files:

- 1) GenerateMSERs.m – includes code to generate MSERs from images
- 2) ClassifyMSERs.m – includes use of a classifier to determine if an MSER is noise or character.
- 3) ProcessNewImages_RemoveNoiseElements.m – includes code to create new images by removing noise MSERs from the original images.

R File

The R file can be run in RStudio[®]. RStudio[®] can be downloaded for free from:

<https://www.rstudio.com/products/rstudio/download/>

There is one file: Compare_OCR.R – used to return Levenshtein distance algorithm result from the comparison of two texts. Requires the installation of package readr. The instruction is included in the script: `install.packages("readr")`.

List of figures

Figure	Page
1.1 Document Processing Pipeline	17
1.2 Image containing noise	18
1.3 OCR output of figure 2	18
1.4 Example of ink splatter	20
1.5 Example of ink bleed-through	21
1.6 Example of blackout due to a page fold	21
1.7 Original vs Processed Image	23
1.8 MSERs created after inverting the original image	24
3.1 MSER file record structure	37
3.2 Classifier identification process	38
3.3 MSER Ellipse	38
3.4 MSER process with the evaluation page	41
3.5 Noise Removal Process	42
3.6 OCR Process	43
3.7 Improvement ratio of OCR output	46
3.8 Manual Transcription will produce the test-text	47
3.9 OCR text from original images	49
3.10 Generate OCR text from processed images	50
4.1 Confusion matrix of test run for African Standard Newspaper	52
4.2 Results of test run for African Standard Newspaper	52
4.3 Confusion matrix of first test run for Gold Coast Leader	53
4.4 Gold Coast Leader results after first test run	54

4.5	Image 1 from 1 st Gold Coast test 1	54
4.6	Image 6 from 1 st Gold Coast test 1	55
4.7	Broken characters	55
4.8	Decrease in quality after processing	56
4.9	Gold Coast Leader's second run to confirm image 1s problem	57
4.10	Confusion matrix for classifier trained on images 1,2,4,6.	58
4.11	Training data consisted of images 1, 2, 4 and 6	58
4.12	Confusion matrix for classifier trained on image 1 only	59
4.13	Training set consisted of image 1s MSERs only	60
4.14	Image 1 training data on same issue	61
4.15	Paragraphs OCR'd for Image 6	62
4.16	Post-processed image 6, Gold Coast Standard Run 1	63
4.17	Example of decision tree	65
4.18	Simplified ensemble versus single function	66
4.19	Feature dominance across all trees for all EBTs	67
4.20	Classification using KNN	69
4.21	Image 9 original vs processed	71
4.22	Image 11 original vs processed	72
4.23	Image 2 original vs processed	72
5.1	Content elements and Line elements in image 6	75
5.2	Blackout example from image 1 – 91182 pixels	76
5.3	Blackout example from image 4 – 33050 pixels	76
B1.1	Evaluation image 1 - The Gold Coast Leader	199

B2	Evaluation image 2 - The Gold Coast Leader	199
B3	Evaluation image 3 - The Gold Coast Leader	199
B4	Evaluation image 4 - The Gold Coast Leader	200
B5	Evaluation image 5 - The Gold Coast Leader	200
B6	Evaluation image 6 - The Gold Coast Leader	201
B7	Evaluation image 7 - The African Standard	201
B8	Evaluation image 8 - The African Standard	202
B9	Evaluation image 9 - The African Standard	202
B10	Evaluation image 10 - The African Standard	203
B11	Evaluation image 11 - The African Standard	204
B12	Evaluation image 12 - The African Standard	204
B13	Evaluation Image 13 – The Gold Coast Leader	205
B14	Evaluation Image 14 – The Gold Coast Leader	206
B15	Evaluation Image 15 – The Gold Coast Leader	207
B16	Evaluation Image 16 – The Gold Coast Leader	208
B17	Evaluation Image 17 – The Gold Coast Leader	209
B18	Evaluation Image 18 – The Gold Coast Leader	210
B19	Evaluation Image 19 – The Gold Coast Leader	211
B20	Processed Evaluation image 1 - The Gold Coast Leader	212
B21	Processed Evaluation image 2 - The Gold Coast Leader	212
B22	Processed Evaluation image 3 - The Gold Coast Leader	212
B23	Processed Evaluation image 4 - The Gold Coast Leader	213
B24	Processed Evaluation image 5 - The Gold Coast Leader	213
B25	Processed Evaluation image 6 - The Gold Coast Leader	214

B26	Processed Evaluation image 7 - The African Standard	214
B27	Processed Evaluation image 8 - The African Standard	215
B28	Processed Evaluation image 9 - The African Standard	215
B29	Processed Evaluation image 10 - The African Standard	216
B30	Processed Evaluation image 11 - The African Standard	217
B31	Processed Evaluation image 12 - The African Standard	217
B32	Processed Evaluation Image 13 – The Gold Coast Leader	218
B33	Processed Evaluation Image 14 – The Gold Coast Leader	219
B34	Processed Evaluation Image 15 – The Gold Coast Leader	220
B35	Processed Evaluation Image 16 – The Gold Coast Leader	221
B36	Processed Evaluation Image 17 – The Gold Coast Leader	222
B37	Processed Evaluation Image 18 – The Gold Coast Leader	223
B38	Processed Evaluation Image 19 – The Gold Coast Leader	224
C1.1	Code Extract – GenerateMSERs.m	225
C1.2	Code Extract – ClassifyMSERs.m	227
C1.3	Code Extract - ProcessNewImages_RemoveNoiseElements.m	228
C2.1	Code Extract - Compare_OCR.R	231
E1	OCR Text extracted from image 1 from 1st Gold Coast paper test run	236
E2	OCR Text extracted from image 1 from 1st Gold Coast paper test run	237

List of tables

Table	Page
1.1 Classifiers available in MATLAB® grouped by type	28
3.1 Ratios of Accuracy, Precision and Recall Equations	40
3.2 Levenshtein distance results	46
4.1 EBT Observaions	68
A1 Comparison of correct text against the OCR output	84
A2 Comparison of OCR text from original images against the OCR text from final processed images	89
D1 Basic statistics of the Major Axes feature across all images and training files	232
D2 Basic statistics of the Minor Axes feature across all images and training files	233
D3 Basic statistics of the Pixel Count feature across all images and training files	234
D4 Basic statistics of the Orientation feature across all images and training files	235

Abbreviations

BLR – Bayesian Logistic Regression

EBT – Ensemble Bagged Tree

KNN – k-Nearest-Neighbours

MSER – Maximally Stable Extremal Region

OCR – Optical Character Recognition

SVM – Support Vector Machines

SWT – Stroke Width Transform

1. Introduction

Helen is a historian. She is responsible for a large collection of historically significant newspapers. They are old but they are important. They are also numerous. Anyone who wishes to pull useful data from these documents has a mammoth task before them.

These papers can be scanned into a computer. From this point, multiple copies can be made and read without physical degradation to the actual paper. This is helpful for preservation but does not make the paper all that useful yet. They are still only readable by a human because the documents have been scanned in as images, not text. It is equivalent to having taken photographs of the papers and browsing them on a computer. But, what if Helen wanted to perform word searches on these images? This is impossible without processing the images into text.

The scanned image can go through a conversion process called Optical Character Recognition (OCR). This process tries to recognise characters in the image and generate text from the characters it finds.

This text can then be searched and analysed. However, this conversion may not be seamless. Some elements in the image do not represent characters, numbers or punctuation. There may be marks on the page such as ink blots and page folds. These are easily ignored by the human eye, but not by the OCR tool. These marks are called image noise. Noise can cause errors in OCR output. Ideally these noisy elements should be removed from the image before it goes through OCR processing.

1.1 The Objective

This research will evaluate the application of Maximally Stable Extremal Regions (MSERs) and supervised machine learning algorithms for noise removal from historical document images.

The document images are digitally scanned images of newspapers from the African Newspapers database. This database is a collection of early twentieth century newspapers which have been scanned in and made available by Readex [1]. The unique noise in these newspaper images causes degraded OCR output.

The technique will allow noise to be removed from the images before OCR processing. This should lead to more correctly generated OCR output.

The following sections explain the concepts mentioned herein. Firstly, the background on the Document Processing Pipeline (DPP) is discussed and the research is placed into context of the DPP. This is important as the technique is not a stand-alone function but forms part of a set of steps. Changes in steps have downstream impact. This research will evaluate whether the impact on the pipeline is positive or negative and the magnitude of impact. The DPP context also influenced the testing mechanism chosen to evaluate the technique, which is discussed in section 3.2.

The pipeline and the need for image noise reduction in the Image Processing step of the pipeline, is discussed below. This is followed by an explanation of the technique.

1.2 The Document Processing Pipeline and Image Noise

1.2.1 The Document Processing Pipeline

The DPP is the sequence of steps required to convert images into text for analysis. There are three main steps:

- 1) Image Processing
- 2) OCR Processing
- 3) Text Analysis

This pipeline converts the scanned-in image of a document into text that a computer can 'read'. The pipeline is illustrated in figure 1.1.

The Image Processing step involves any changes required to the image, to improve readability before it can continue being OCR'd.

The focus of this paper is on a technique to reduce the number of unwanted noise elements in the images. The pink box in figure 1.1 indicates where this technique fits into the pipeline.

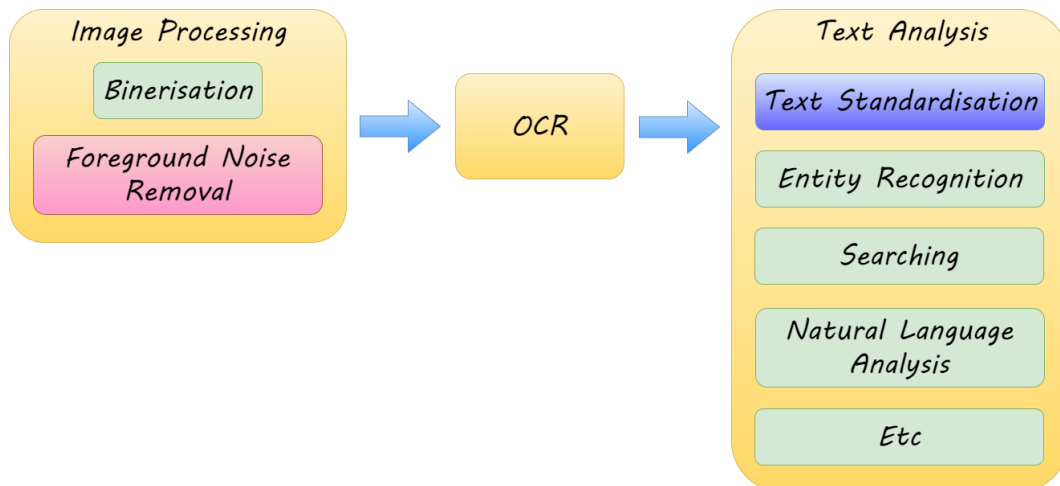


Figure 1.1: Document Processing Pipeline

There could be a number of problems affecting the quality of an image:

1. They are too dark or light.
2. There is little contrast between the text and the background.
3. The image contains noise. Noise can constitute anything which distorts reading of the text. Noise can include blotches and flecks which appear in the image. These can be seen in figure 1.2.

After the Image Processing step, once the image has been improved, it can go through OCR. OCR software tries to recognise the parts of the image that represent text. The output of the OCR will be text. Before analysis can be performed on the text from the image, it is run through a standardisation process. The Text Standardisation process is indicated by the blue box in figure 1.1. The process involves removing minor anomalies and normalising the text.

Standardisation is important because every level and type of text analysis involves pattern matching. In the case of this research, simple anomalies such as additional whitespace or the case of the letters don't offer insight into the data, however, their presence can influence can cause false negatives when the texts are testing for matches. To avoid this, any text being matched should go through the same Text Standardisation process to avoid matches not occurring due to these minor differences.

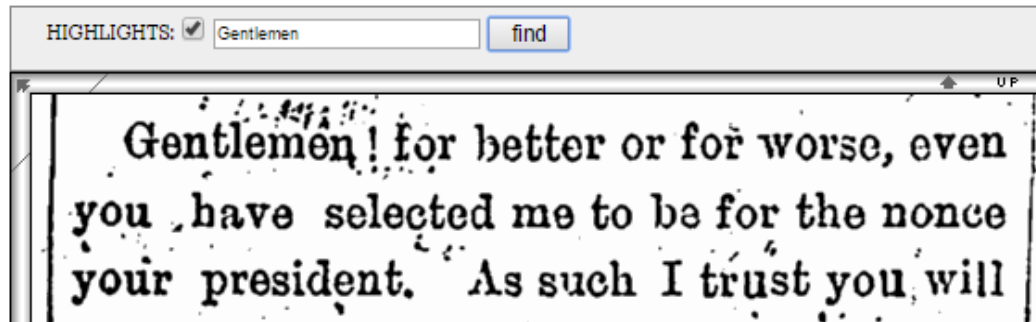


Figure 1.2: Image containing noise

```
Gentlemei\\!! \xa3 or better or for worse,  
even?you .have selected me to be for the  
nonce?your president. As such I trust you,will
```

Figure 1.3: OCR output of figure 1.2

For example, finding every instance of the word “newspaper”, in a piece of text, may be affected by different cases of letters, like the word “Newspaper”, with a capital ‘N’. It could also be affected by odd punctuation (either intentionally placed into the word by the writer or unintentionally read out by the OCR software) e.g. “news-paper”. Ideally all three instances of the word should be returned on searching for “newspaper”. Rather than coding rules for all types of anomalies in the analysis software, text goes through a standardisation process.

After standardisation, text analysis techniques can be performed. This can be simple searching or more complicated analysis like Natural Language Processing.

Standardisation can vary on different DPPs. It is important that the same standardisation is applied to texts that will be compared to each other at the end of a DPP. The standardisation code in this research performed the following corrections to the text:

- 1) Removal of additional whitespace and line breaks.
- 2) Conversion of all letters to lowercase.
- 3) Removal of all punctuation.

Standardisation cannot overcome more complicated anomalies which result from noise in the image. This leads to researchers having to often manually filter out the anomalies and correct them one by one and/or accepting high error margins in text analysis results. Hence noise removal is needed at the Image Processing step so that the noise does not filter through to the text.

OCR software tries to read the text in an image. It does this by looking for characteristics that match alphabetic or numerical characters, and punctuation in the image. Refer now to figures 1.2 and 1.3. Figure 1.2 is an example selected from the African Newspapers database. The OCR output from figure 1.2 is shown in figure 1.3. One can see that the noise affected the OCR tool's ability to suitably convert some of the letters into the correct text.

1.2.2 When Conversions Fail

Failed OCR conversions lead to an inhibited ability to further process the text. The onus is on the text analysis step to cater for the noise that has come through from the previous (OCR) step. Sometimes this is impossible without compromising the text analysis to a large extent. Take, as an example, trying to find paragraphs of matching text. If one of the images produced the above output – as seen in figure 1.3, and another image containing the exact same text but from a different document, produced OCR output with different noise, then they will have some level of similarity. This leads to the question of what percentage of resemblance is enough to consider two texts to be considered similar and what percentage of similarity is required to determine a match. Ideally these two texts would match exactly but due to noise, they will only be returned from analysis as *similar*. If there is too much noise, they may not return as a match at all. This result is a false negative. This problem could become quite complex when there are real partial text matches involved. There may be articles which share parts of their text but are not entirely complete copies of each other. The question then becomes, *“are these two articles real-partial-matches or are they complete-matches but return as a partial match due to the noise content in the text?”* Removing noise will simplify the downstream text analysis step.

1.2.3 An exploration of noise

OCR on historical newspapers is already difficult for various reasons. These reasons include variance in typefaces (the font style), size and language [2].

Image noise adds further complications. Removing the noise elements from the images, will lead to less misinterpretation by the OCR software. Downstream processes, like search or Natural Language processing, will benefit from the better OCR and it means less 'work-arounds' later, for these processes [3].

Historical newspapers have their own 'natural' noisy elements. Noise in the form of ink splatter, blackouts (folds in the paper and smudges or blotches which completely cover the text underneath them) and bleed-through (which is ink seeping through from the adjoining page) are common. The OCR software tries to interpret these instead of ignoring them. This leads to bad quality OCR output. See figures 1.4, 1.5 and 1.6 for examples of noise from the dataset.

Many years of work have gone into recognising many languages and fonts. Despite this, OCR software does not 'know' how to ignore non-text elements.

Modern OCR tools are based on neural networks. Hence they are *taught* to recognise the distinguishing features of letters, numbers and punctuation. This includes the ability to work on different fonts and languages. The Tesseract OCR application is capable of recognising many different fonts and languages. It therefore seems likely that OCR neural networks could be taught to recognise noise too and remove or ignore it at the OCR step. In this research paper, it has been added to the image processing step, due to the uniqueness of noise.

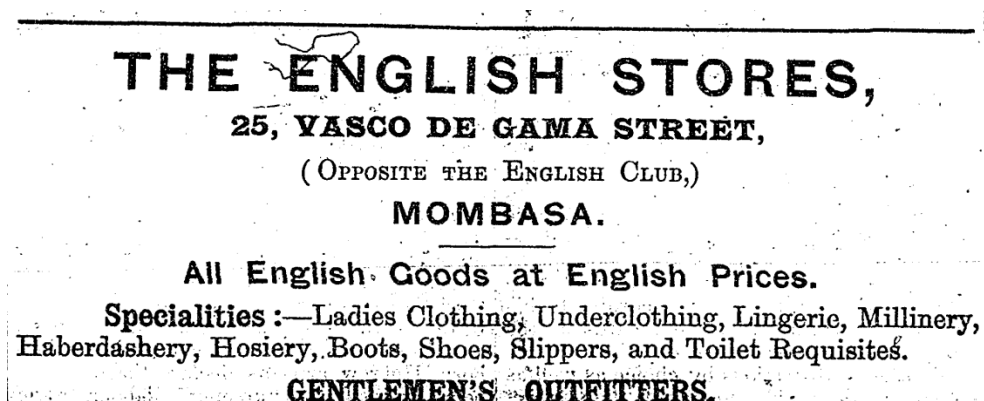


Figure 1.4: Example of ink splatter

ways unique. The reader can follow with ease the whole of a somewhat complicated series of marches and fights. As is well known, the rebels ultimately evacuated Lubwa's, and fled across the Nile, whither they had to be pursued, Macdonald had to undertake at the same time the suppression of the revolting Mahomedan natives under Mwanga, and he had a hard job of it in the seven months that elapsed before he was able to piece together his expedition again and start for the north. The ability displayed by the leaders of the Soudanese was indisputable. For instance, they evacuated Lubwa's with as much ease as if there had been no investing force within miles. Their intention was known beforehand, as Major Austin shows:—

"A deserter told us the mutineers were meditating an attempt to break out by water, utilising the dhow for this purpose to cross to a promontory about two miles across the lake certain from what he saw of the Sobat region in the following year that Macdonald would never have got through the floods and swamps in the rainy season.

The author's story of the doings of his own column are of course, absolutely authentic and add much to our knowledge of country he traversed and its inhabitants, especially the magnificent but unreliable Turkana, who gave him much trouble on the way back. One finds that the actual hardships suffered by the Austin column before their arrival at Rudolf do not read so distressingly in the author's retrospect as they did in the newspaper stories of the time. But he had not his sorrows to seek, and it is plain from his narrative that if "occupation" of the whole of Uganda is ever decided upon it will go hard with the Turkana, perhaps also with the troops that are sent after them. Major Austin quotes with pride a

Figure 1.5: Example of ink bleed-through

Figure 1.6: Example of blackout due to a page fold

Unlike characters, noisy elements are those elements which do not have consistent, definable characteristics. Noise is often noise because it does not have explicitly obvious shape features.

Other elements may be considered noise by choice. Some image elements may be unwanted or unnecessary in later processing. Lines on the image, for example, maybe considered to be noise by the researcher. Their shape is defined but their presence in the image is undesirable. What qualifies as noise can be different depending on the use of the scanned documents. It may be that one researcher would like to remove all lines from the documents, and considers them noise, whereas another may not.

Not only does noise come in varying (defined and undefined) shapes and sizes but the elements considered to be noise can also be different depending on the context of use. For this reason, this dissertation suggests that noise removal should occur in the image processing step. This way, the noise elements can be correctly selected for the context of use.

The technique takes the approach of using machine learning to provide customised noise removal, which will lead to better OCR output.

1.2.4 Investigating a Noise Reduction Technique

Figure 1.7 shows an example of the technique demonstrated in this paper. It is a picture of an original noisy image versus its processed, cleaned, twin. Table A1, Appendix A, column two shows the OCR output of the original image. It also shows the output of the processed image in column three. The first column in the table shows the test-text. This is the perfect text version against which both the outputs were compared.

Both OCR outputs are compared to the test-text using a similarity algorithm. This algorithm is explained in the next section. The result was a 46% improvement in correctness from the processed images OCR text.

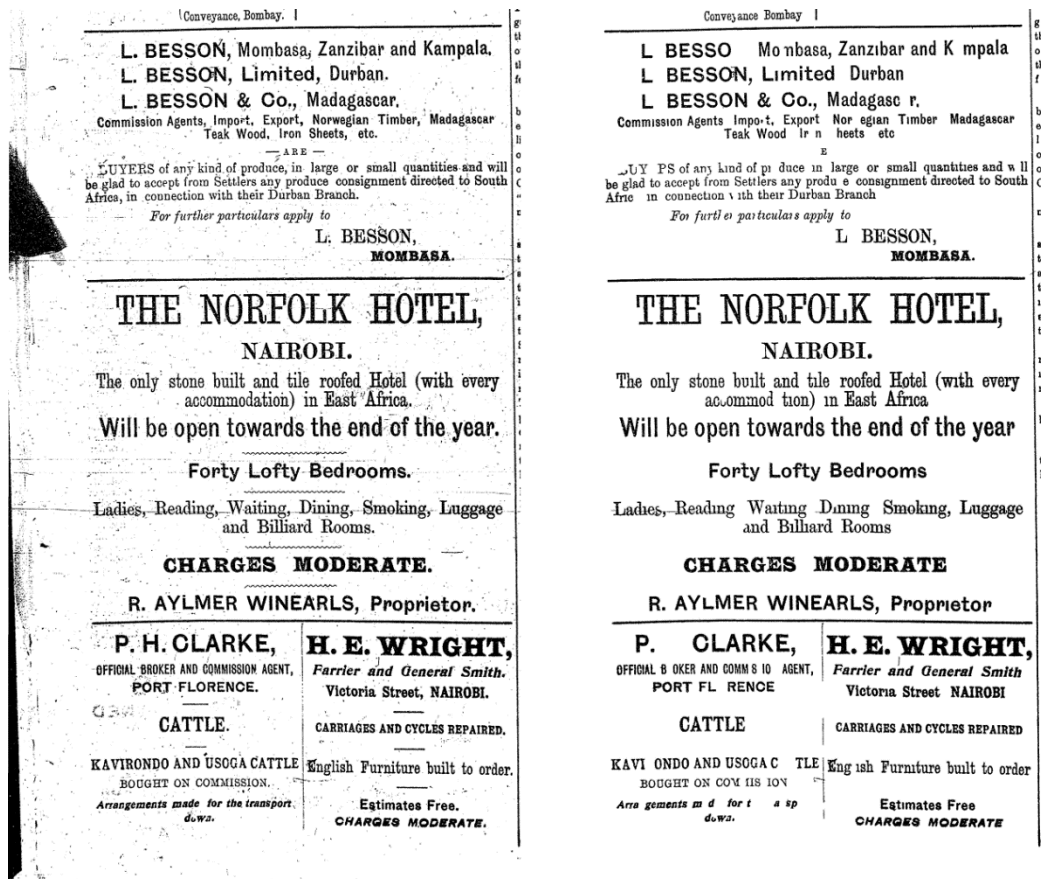


Figure 1.7: Original vs Processed Image

In order to achieve better OCR output, it is important to remove noise at the Image Processing step. The next section will explain the technologies used in the noise removal technique investigated in this paper. The technique makes use of MSER features and supervised machine learning classifiers. The similarity algorithm used to test the texts is the Levenshtein algorithm. It is also explained since it forms part of the testing of the technique.

1.3 The Concepts

This section contains explanations of the algorithms/ techniques used in the method investigated in this paper.

1.3.1 Maximally Stable Extremal Regions

The Maximally Stable Extremal Regions (MSERs) algorithm is a detection algorithm which is used to identify 'blobs' of pixels which have the same level of intensity, in an image. The intensity, in the context of binary images (black and white), is the contrast of a region against the background. As seen in figure 1.8, various regions show up against the black background of an inverted image (black and white pixels swapped around).

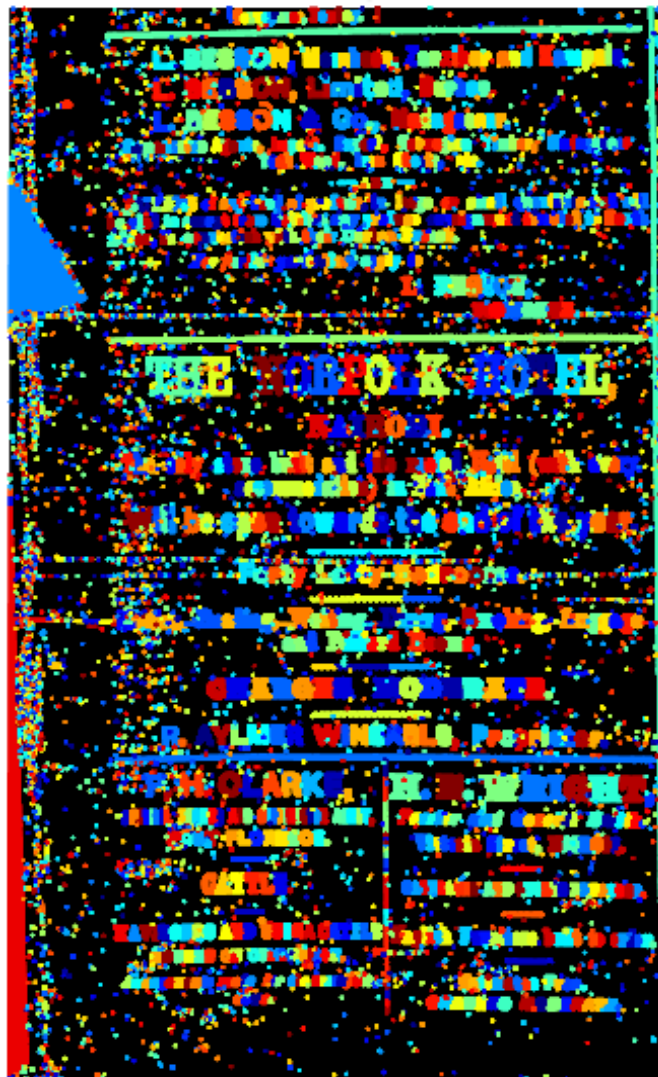


Figure 1.8: MSERs created after inverting the original image

These 'blobs' are referred to as regions. The regions can be found by applying different levels of thresholding to the images and reviewing which regions remain consistent throughout the testing of different threshold values.

Thresholding is the process of separating pixels by a given value – the threshold level. Pixel values are either below or above the threshold value. If one applies different threshold levels to the image, different regions will be formed. Local maxima/minima of the regions will form at different threshold levels. The maxima/minima are the uppermost and lowermost values that one would see if the intensity values were plotted on a graph. The regions which remain the same and have consistent local maxima, throughout the application of varying thresholds, are the maximally stable extremal regions. Minimal regions are found by applying the process to an image that has had its intensity values inverted [4].

The MSER algorithm was designed to find matching features between images of the same content, but from different angles [4]. However, it also works well, on a single image.

The technique is not inhibited by skew text, and as it is not an OCR process, it is also language and font-size independent.

Regions have certain properties such as orientation, pixel count and the major and minor axes of the ellipse which expands from the centre of a region [5]. To produce the result image in figure 1.8, these properties were used to train a classifier. The resulting classifier was able to remove a lot of noise with a few errors. The classifier algorithm can likely be improved upon by using more features in future. The technique is illustrated in detail in Chapter 3.

Although usually used on grayscale images, the MSER algorithm is useful for dividing up the foreground of a binary image, into regions. Regions representing noise can be wholly removed from the image.

1.3.2 Machine Learning Classifiers

Classification is a pattern-recognition problem. In machine learning, it is the process of placing data into certain categories. These categories are determined by the percentage of the appearance of features. The features are properties of

the dataset. A classifier's job is to map an observation/record into a category, according to the value it has for each feature [6].

There are supervised and unsupervised classifiers. Supervised classifiers are taught using examples which have been correctly categorised. It can classify new data, based on what it learnt from the examples provided. Unsupervised classifiers are not given examples to learn from. An unsupervised classifier will sort the data into categories it discovers. They will be the categories most natural to the data. This is useful for discovering the natural state of the data. These natural categories, however, may not directly map into the categories one needs for processing [6-7].

This study will make use of supervised classifiers. These get trained by using a sample set of correctly classified records. All available classifiers, in the MATLAB[®] tool describer below, were trained. This allowed for a classifier to emerge from the available set rather than pre-selecting a classifier, or a set of classifiers, by making assumptions about the data.

1.3.3 Levenshtein Distance algorithm for approximate text matching

In order to test the quality of the OCR output, before and after applying the image processing, an approximate text (string)/ fuzzy text (string) matching algorithm is required. The algorithm in use will be the Levenshtein distance algorithm. The Levenshtein algorithm is a type of Edit Distance Algorithm which gives an indication of how different two pieces of text (or strings) are. The number that the algorithm outputs equates to the number of changes (insertions, deletions and substitutions) that would be needed in order for the first string to be changed into the second [8]. OCR output, from images which have gone through the MSER and classifiers processing, will be compared to a manually created correct OCR test set. OCR output for images which have not had the process applied will also be compared to the test output. This comparison provides an objective measurement of any improvement generated from the proposed technique.

Note that before the text gets processed by the Levenshtein algorithm, it will go through normalisation. Normalisation means that the text will be converted to lowercase and all punctuation and additional whitespace (anything longer than one character of whitespace) will be removed.

1.4 Resources and Tools used

The research required the use of a dataset of images, an OCR processing tool to convert the images to text, and a tool with which the MSER generation and machine learning classifiers training and usage could be performed – namely MATLAB®.

1.4.1 African Newspapers Database

The set of images used were selected from the World Newspaper Archives set of African Newspapers [1]. The specific sample selected can be viewed in Appendix B. The images were chosen for their poor OCR output quality.

1.4.2 OCR Processing Tool

The Tesseract-OCR tool used in the research was started by HP and is currently supported by Google. It has been used by many applications and still undergoes active development [9].

- Tesseract is downloadable as a binary file.
- It is open-source.
- Free to use under the Apache 2.0 license.
- The latest stable version, 3.04.01 was used.

1.4.3 MATLAB®

The MATLAB® product (R2016a) along with the Image Processing Toolbox, the Computer Vision System toolbox and the Statistics and Machine Learning Toolbox were used in this study [10-13].

The Classification learner has twenty-two classifiers. All of the classifiers were trained in order to comparatively select the best one. The classifiers available are listed in Table 1.1.

Table 1.1: Classifiers available in MATLAB® grouped by type.

Decision Trees	Discriminant Analysis	Support Vector Machines (SVM)	Nearest Neighbour	Ensemble
Complex Tree	Linear Discriminant	Linear SVM	Fine k-nearest neighbour	Boosted Trees
Medium Tree	Quadratic Discriminant	Quadratic SVM	Medium k-nearest neighbour	Bagged Trees
Simple Tree		Cubic SVM	Course k-nearest neighbour	Subspace Discriminant
		Fine Gaussian SVM	Cosine k-nearest neighbour	Subspace k-nearest neighbour
		Medium Gaussian SVM	Cubic k-nearest neighbour	RUSBoosted
		Course Gaussian SVM	Weighted k-nearest neighbour	

1.5 Organisation of dissertation

This chapter reviewed background knowledge about the DPP It explained that the noise removal forms part of the image-processing step. A review of the techniques and tools used was presented.

The rest of this paper will be organised into the following sections. Chapter 2 will review the current literature. It will discuss some contributions to the current historical DPP and the use of MSER in Scene Text Detection. The influence of the current work on this research will be indicated.

Chapter 3 will illustrate the technique itself and the methodology used to test the technique. Chapter 4 will describe the results found and Chapter 5 will discuss further direction for the current research. The paper will conclude with Chapter 6.

There are two Appendices for this paper. Appendix A contains a table which indicates OCR comparisons generated from pre and post image noise removal, to the corrected text. Appendix B holds the images used in the study.

2. Background Review

This section contains reviews of research on historical document image processing as well as research about the use of the MSER algorithm in natural scenes. This includes work that uses MSER properties together with machine learning classifiers. The final reviews look at custom techniques which were developed for a specific subset of natural scenes.

2.1 Historical document pre-OCR image processing

Historical documents experience degradation. They degrade for various reasons. If stored incorrectly, they can be affected by humidity and pests [14-15]. Old newspapers are especially fragile - they can discolour and become brittle [16]. Much of the research focus for historical documents has been on binerisation due to degradation. Binerisation of an image involves separating the image into black and white. Generally this distinguishes background from foreground. In the case of newspapers, the characters and noise form part of the black foreground. The background is white. Binerisation is one way to solve some of the noise problems. The focus of this research will be on noise physically present on the original newspaper and noise created from the scanning process.

Stamatopoulos [17] and Gupta et al [18] conducted research on processing techniques with consideration of the entire processing pipeline - from the original image to the final OCR text output.

Stamatopoulos [17] researched and developed techniques for border removal, de-warping, text lines segmentation and character segmentation. The techniques were performed on numerous historical documents but no examples are shown. The amount or type of noise in the images is also unclear [17]. Despite missing clarity, this research brought about an important consideration. All algorithms selected to process images into text, need to be considered together and not in isolation. With regards to the African Newspapers dataset, there are many newspapers with broken/partial border lines. These partial lines cause bad OCR output. Tesseract OCR removes borders before performing article segmentation. It does not recognise these partial borders and they get processed into bad text.

Gupta et al [18] reviewed different binerisation algorithms. Some of these were pre-existing and some were improvements of those existing algorithms. They

also review some post-binerisation processing methods. They consider the entire processing pipeline. Each processing step affects the one after it. They found that some pre- and post-processing algorithm combinations worked better together than others. Gupta et al tried different combinations of algorithms to see which ones worked better together in the pipeline [18]. Sometimes customised combinations may yield better results than a generic one for a certain dataset. This research, on MSER and classifiers, will test and compare different classifiers. Different MSER property combinations will also be tested. With each combination, the OCR output will be the evaluation mechanism. OCR output is tested as it is the final output of the entire pipeline.

Satange et al [15] highlight the challenges of scanning historical documents. Scanners can introduce noise into the image, especially noise created by light (or darkness). The authors review how problems occurring during this process affect binerisation of the image. The focus is on noise introduced during scanning rather than noise already present in the document [15]. This research paper will look at how to remove noise which was physically present on the newspaper and is now in the scanned images. It will also work for some noise introduced during scanning, although this noise is not the main focus. There will be other types of noise not addressed by this research, which will still impact the OCR quality. An example of this would be black marks which completely cover sections of text. This was illustrated in section 1.2.3, figure 1.6. It is not possible to correct or remove the blackouts to reveal the text that once was. It may be possible, later in the pipeline, to recover some of this data using natural language processing to guess the missing text.

Church [19] worked on processing a historical French newspaper. He found that he could use a better binerisation algorithm to improve output. The results however, were unsatisfactory. He suggested manual correction of the output to compensate [19]. Post-processing might save some of the output but better image pre-processing could fix some of the issues at source. It was this research that brought about the idea that there must be other ways to approach noise removal from historical documents. Binerisation is very important but it is not enough. The African Newspapers database images are already binerised and of high quality, so further binerisation does not lead to improved images or better

quality OCR. Other noise removal techniques are needed to improve OCR output.

2.2 Maximally Stable Extremal Regions (MSER) for Text Detection

2.2.1 MSER in Scene Text Detection

MSER is commonly used for text detection in natural images, also referred to as Scene Text Detection. MSER is an algorithm which separates the foreground elements of an image. Figure 1.8, referred to in section 1.3.1, shows how an image foreground is made up of many MSERs.

Natural images are pictures of scenery, road signs or buildings – images of ‘natural’ environments. The text is on an element in the scene such as a notice board or sign. The text could also be superimposed onto a scenic image. Natural images are full of noise. Text in natural images has certain properties. These properties include consistent sizes and shapes [20]. Historical documents have noise which is ‘natural’ to them. Ink splatter and extra lines where the paper was folded, are common in the African Newspapers dataset. When MSER is applied to the images, it is easy to see how the shapes of those splatters and folds are different to the character regions. It is possible to make use of the shape properties to distinguish noise from characters.

Images taken on mobile phones are a particularly pervasive area of Scene Text Detection research. Chen et al [21] and Soman and Sindhu [22] used MSERs combined with the Canny edge detection algorithm, to help with slight blurriness in the images. Stroke Width Transform (SWT) helps separate the text elements from the rest of the image [21-22]. SWT can be a useful feature in natural images. Text will usually keep a uniform stroke width throughout, as opposed to other elements in a scenic image [20]. This research demonstrated the use of the MSER algorithm to find text. It also showed how MSER properties coupled with other algorithms can be used to distinguish noise from text.

Neumann and Matas [23] apply their method to two databases, each containing various natural images. They filter out regions in iterations, using more complex features, at each iteration. Simpler features include: the region area; made up of the number of pixels in the region; and the properties of the bounding box, which

encapsulates the region. Complex features include properties like convex hull of the region and number of holes present in a region [23]. This research demonstrated the wide variety of shape properties available for use.

Wiwatcharakoses and Patanukhom [24] expand the research into scenes containing text printed in languages other than English. The dataset includes nine languages, some of which are Arabic, Chinese, English, Japanese, Korean, and Thai. This is a natural progression as MSER detection is robust to writing direction, styles and alignments. It works at the image level rather than a language level, which is where OCR and Natural Language Processing perform. The team make use of a number of features such as region pixel count, colour, major and minor axes and stroke width. With the authors' method, regions which could contain text receive a high or low confidence rating by fulfilling certain property requirements. Low confidence regions are disposed of as noise. [24]. Their paper also demonstrates MSER property usage. In addition, the authors show an important advantage of using MSER for noise detection, which is its robustness. It is not affected by skew text or varying font and layout styles.

2.2.2 MSER with classifiers

The use of machine learning classifiers was a natural progression in Scene Text Detection. The classifiers can use the array of available MSER properties to categorise MSERs. It is useful to train classifiers to filter out unwanted regions from images. The classifiers use the training data provided to determine the best algorithm. This often leads to a more customised algorithm, better suited to the data. This can be better than making rules based on assumptions about the data. It could take a person a very long to manually create the complicated rules. The classifiers algorithms find the rules in the data with more efficiency and precision.

Various classifiers can produce varying results with different configurations of features. It is worth testing many classifiers with different combinations of training features. This is because the classifier output cannot be assumed as it is custom to the data.

The following authors show that there are various ways of using the MSER properties and different classifiers.

Nafla et al [25] propose a method which makes use of various classifiers. An AdaBoost classifier is trained to determine if regions should be combined into a cluster. They are combined according to whether they are adjacent or not. AdaBoost, created by Freund and Schapire, is an algorithm which boosts the performance of other algorithms, to get more accurate results [26]. A Support Vector Machine (SVM) decides if a cluster contains text or not. SVMs determine a stroke width value for a pixel. Pixels with consistent values, usually indicate text [20]. The method presented by the authors is clear but the example image used is very clean – there is very little noise present. There is no noise-impact testing mentioned and it's very difficult to tell the impact of improvement that the method makes to the image [25]. Use of a clean image cannot demonstrate a noise-removal method well. The proposed method in this dissertation will clearly showcase the different types of noise for which the method is successful and not.

Iqbal et al [27] performed a comparison of classifiers for scene/natural images. They found that Bayesian Logistic Regression (BLR) performed the best on their selected features [27]. BLR is able to make predictions based on probabilities determined using Bayes Theorem, which calculates conditional probabilities and predicts whether a record of MSER property data is noise or not [28]. It is important to train many classifiers rather than assuming that only one is best for the selected training set. Because many of them use probability, they are heavily influenced by the training data and classifiers will perform better than others. For this same reason, it is also important to try different selections of training data. Some training sets can produce better results than other sets. Running experiments with different combinations of training data and classifiers helps to find the training set and classifier combination that produces the best results.

2.2.3 Custom Applications

Some researchers focused on a subset of natural images to develop customised approaches that work particularly well on that subset.

Greenhalgh and Mirmehdi [29] made use of MSERs and classifiers to find and recognise traffic signs in images. The authors tested three classifiers: SVM, MultiLayer Perceptron, and Random Forests. The Random Forest classifier was selected due to being the most accurate. Random Forests need a large training

set. The authors make use of generated training images to speed up the training data collection. Regions in the images are classified into circles, triangles, rectangles, or none of these (they form part of the background) [29].

The use of properties which are custom to a subset of images can provide more features to work with. This creates better results than a more generic approach. For example, images of traffic signs are a subset of natural images that have unique, distinct shapes. The shapes of the signs can make distinguishing traffic signs in images, much easier. A classifier trained on traffic signs will not work as well on any natural image but it will work very well for its specific purpose. In Greenhalgh and Mirmehdi's research, that purpose was categorising and reading natural images of traffic signs.

These published papers show that a variety of classifiers should be tested. Doing this finds the custom classifiers and feature combinations which work well for the dataset.

From these reviews, it was clear that a customised process for historical newspapers, using MSER and classifiers, could help with noise removal from those newspapers. Removing noise from the scanned in images of the newspapers, will lead to better OCR output.

One needs to consider how the output from the image processing, will affect the OCR quality. The testing of multiple classifiers and MSER features will allow for the optimal combinations to be found. The resulting combinations will be the customised processing which works best for the selected test newspaper images. Even though the image processing step is earlier on in the processing pipeline, the OCR output will be used to evaluate the application of the noise-removal technique described in this paper. This is because the impact on the full pipeline is important.

The background review presented the current state of how historical document images are currently processed. Binerisation has been the main focus in this area, in order to distinguish text in the foreground, from the background of an image. MSER technology in the Scene Text Detection field was examined. This led to the use of MSER data with some machine learning algorithms/classifiers. The next chapter illustrates this MSER and machine learning technique that was applied to the African articles dataset of historical newspaper images.

3 Technique and Testing Methodology

In this section the definition of noise will be discussed in detail. This includes the reason for placing noise removal at the Image Processing step and not at the OCR step of the pipeline. The steps of the technique will be listed and explained. The testing mechanism, using the Levenshtein algorithm as a test for OCR output improvement, is discussed last.

3.1 Technique

The technique involves the use of MSER characteristics and supervised machine classifiers. The classifiers make use of the orientation, pixel count, major axes and minor axes as the data features to feed into the classifiers algorithms. These features were selected as they are basic shape elements, from which other features can be built upon. Shapes can be compared to each other when they are compared in terms of where they are in relation to a measurement (the axes), and a direction (the orientation). As the dataset is digital, the number of screen pixels in a shape can also be used for comparison. These basic features can be extracted from the MSERs and used to distinguish characters from noise.

The noise removal technique was applied to two datasets, selected from the African Newspapers database. The results are discussed in the next section. There were initially twelve images selected from two newspapers – The African Standard and The Gold Coast Leader. The technique was applied separately to each newspaper. In other words, the training data for a dataset from one newspaper was not mixed with training data from the other newspaper. This was to test the application process on different datasets.

The technique aims to produce better quality OCR text. OCR text is generated from both the original image set and the processed images. This OCR is tested for similarity against an equivalent set of text. This text is the test-text which represents the perfect text output. This is done using an algorithm which indicates by percentage how similar two texts are to each other. If the OCR text from the processed image could be more similar to the test-text than the OCR text from the original image, it would indicate an improvement in the OCR output, as a result of the noise removal. The techniques 3 processes/steps will now be explained in detail.

The steps are:

- 1) Classifier Identification
- 2) Processed Image Dataset Generation
- 3) OCR Generation

3.1.1 Classifier Identification Process

Each newspaper has its own style, layout and noise. For this reason, each newspaper will use a classifier which has been trained using data from that specific newspapers dataset. Figure 3.2 illustrates the Classifier Identification Process.

Training data is fed to the classifiers in the form of a training file. The training file is a collection of records. These records are MSERs and their properties. The record structure is illustrated in Figure 3.1.

Region Number	Image	Major Axes	Minor Axes	Orientation	Pixel Count	Class
---------------	-------	------------	------------	-------------	-------------	-------

Figure 3.1: MSER file record structure

Firstly, MSERs are generated from the images. Secondly, the properties of these MSERs are written into a file as records. These properties will be the features that are used to train the classifiers. The properties to be used are: orientation, number of pixels that make up the region, and the major and minor axes.

Orientation and the axes are calculated from the virtual ellipse around a region. If one were to draw an ellipse around a region, it would give them an idea of direction and shape. This is where the orientation and axes properties come from. They are extracted by measuring the direction and size of a 'virtual' ellipse around the region. The properties of the ellipse help differentiate the regions. The orientation is a value which represents the orientation of the line which goes from the centre of the X-axis to the major axis of the ellipse. The axes are the lines that go across from the shortest to the longest points of an ellipse. The visualised ellipse can be seen in figure 3.3.

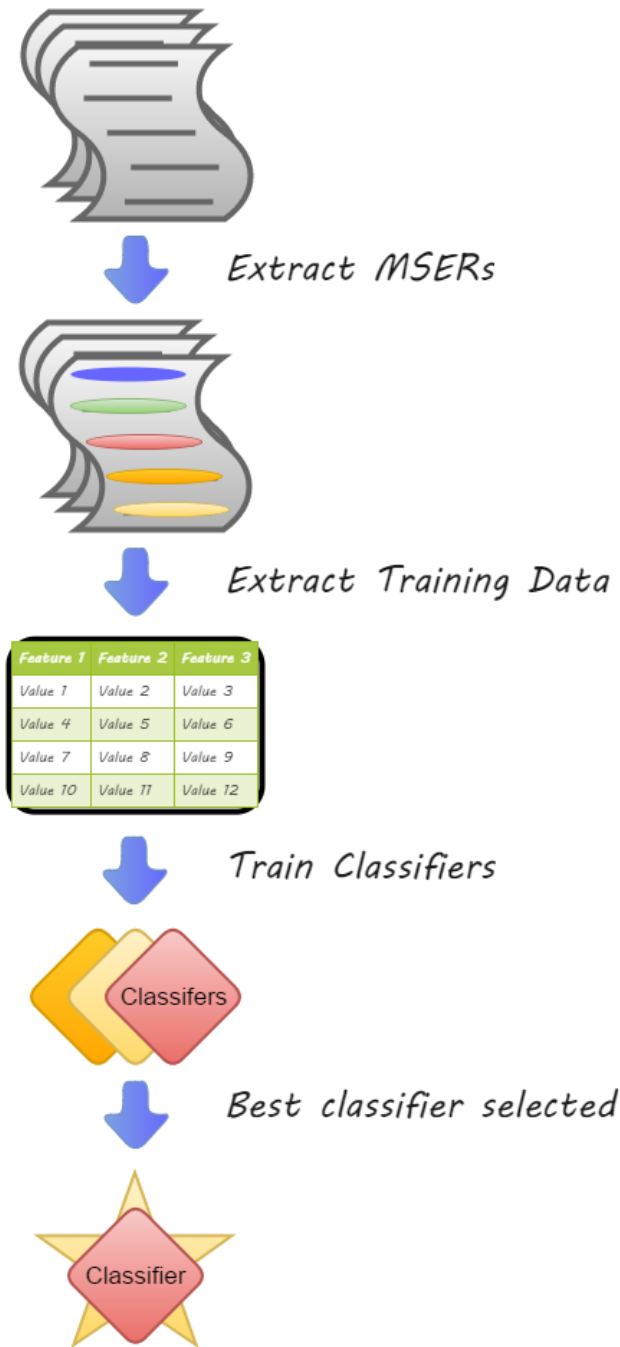


Figure 3.2: Classifier identification process



Figure 3.3: MSER Ellipse

Those records are then manually classified as Noise (N) to be cleared, or Characters/Text (C) which needs to remain in the image. The training file then contains several correctly classified MSER records from which the classifiers can learn.

Training data is split into a training subset and a testing subset. The testing set is what is used to check the correctness of the classifier's ability, after it has been trained. The classifier uses the training set to test its own accuracy. The testing set records are run through the classifiers algorithm(s). The resultant classes are compared to the expectant classes provided in the training file. The ratio of correct matches produces the accuracy result.

The training data will be used to train multiple classifiers. The most accurate classifier for a dataset was to be chosen as the selected classifier, as accuracy is the ratio of correctly classified elements to all the results, although the precision and recall were reviewed to ensure the classifier was not simply accurate but offered the best predictability.

- Accuracy refers to the ratio of correctly identified character and noise elements, out of all the elements in the result set.
- Precision refers to a stricter ratio of the number of elements correctly selected as characters out of all (correctly and falsely) character elements found.
- Recall indicates the percentage of elements that were identified as legitimate characters, from out of all the elements that should have been identified as characters.

These ratios can be calculated by looking at the confusion matrix of the classifier. The confusion matrix indicates the number of elements identified as:

- 1) true positives (correctly identified characters);
- 2) true negatives (correctly identified noise elements);
- 3) false positives (elements identified as characters but were actually noise);
- 4) false negatives (characters that were incorrectly identified as noise).

The ratio formulas for Accuracy, Precision and Recall can be seen in table 3.1.

Table 3.1: Ratios of Accuracy, Precision and Recall Equations

Accuracy	$\frac{[True\ Positives]+[True\ Negatives]}{[True\ Positives]+[True\ Negatives]+[False\ Positives]+[False\ Negatives]}$
Precision	$\frac{[True\ Positives]}{[True\ Positives]+[False\ Positives]}$
Recall	$\frac{[True\ Positives]}{[True\ Positives]+[False\ Negatives]}$

It is worth inspecting all three predictors as a classifier can seem to be accurate yet offer no predictive value due to the accuracy paradox [30]. In an unfortunate consequence, results of post-classified data can seem highly accurate while not being correct at all. For example, take a test dataset which consists of nine noise elements and three character elements. A classifier which categorises every element as noise will happen to return an accuracy percentage of 75%. However, the precision and recall will be 0%. Hence evaluating all three equations is required to confirm the classifiers ability to predict elements.

The classifier with the best accuracy and acceptable precision and recall (the percentage of which is close to that of the precision percentage) will be selected. At the end of this process, each newspaper will have a feature configuration and classifier which will be used specifically for said newspaper.

3.1.2 Processed Image Dataset Generation

Once a classifier has been found for each newspaper, each newspapers full sets of images will be processed into MSER data. Each line of this MSER data will then be classified by the best performing classifiers, as selected in the previous process, for each newspaper. The output of this process is a file containing the MSER records of each image and the selected classification as determined by the classifier. In other words, this file indicates which MSERs are noise and which are characters. The process in figure 3.4 includes the creation of this data file.

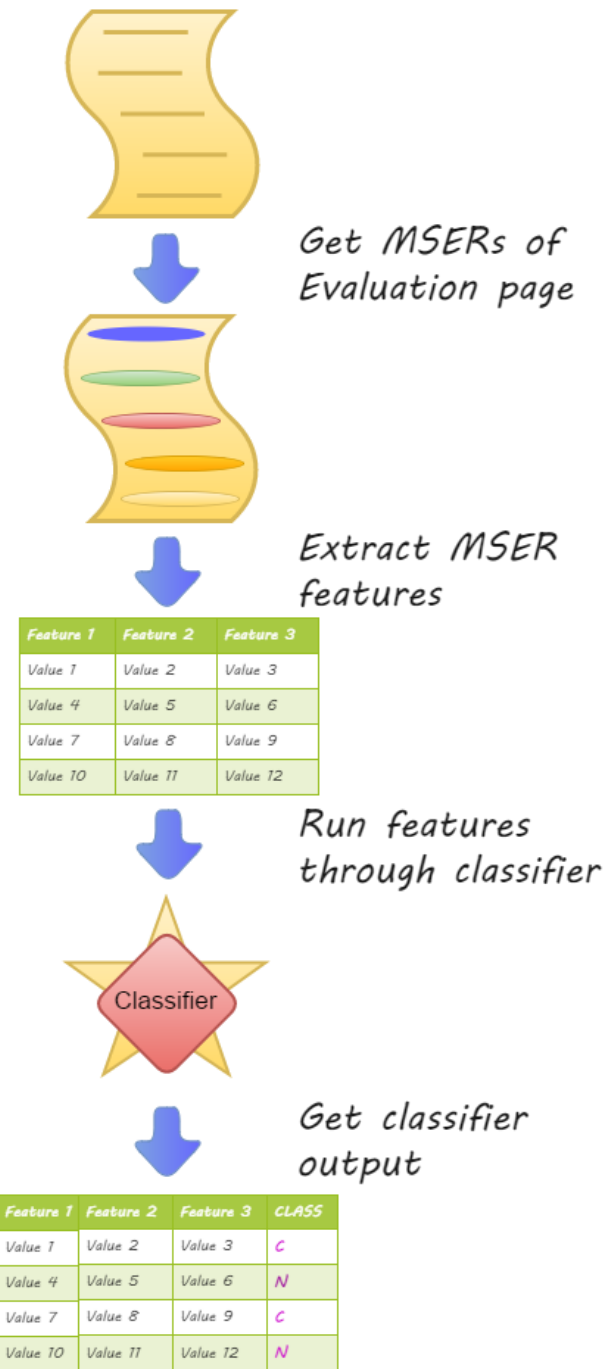


Figure 3.4: MSER process with the evaluation page

Figure 3.5 models the process of creating the cleaner images by removing the noise regions. The removal is carried out in a MatLab script which generates the MSERs for each image, reads in the classified MSERs and removes the MSERs which were categorised as noise, from the original images. New images are

generated and hence at the end of this step, the full set of processed newspaper images is produced. This script can be read in Appendix C, code extract C1.3.

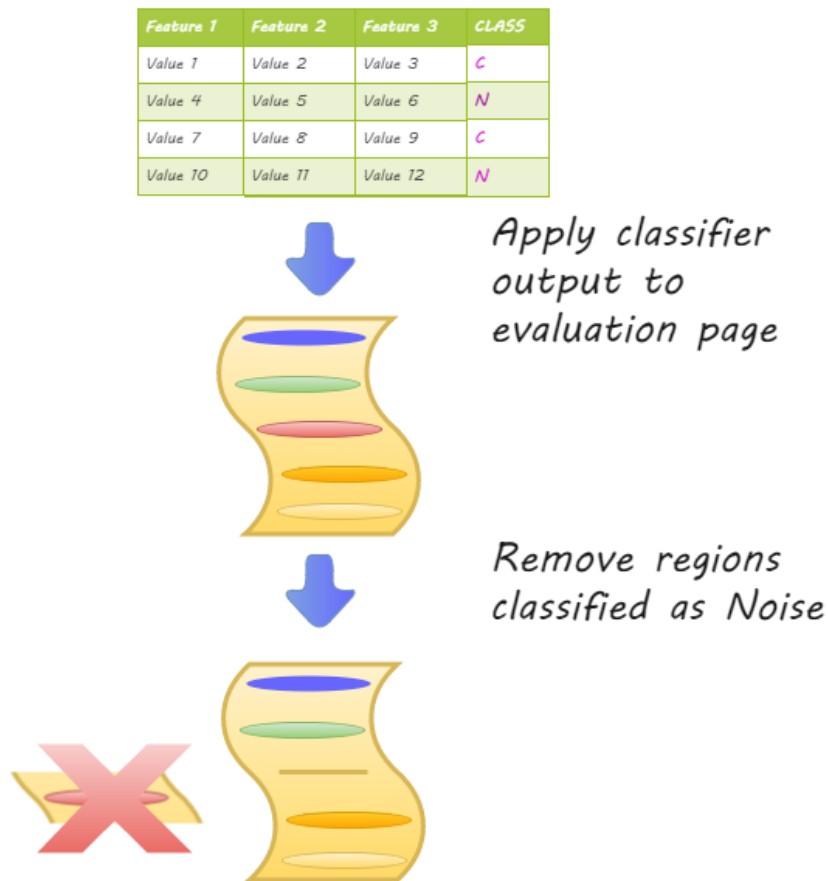


Figure 3.5: Noise Removal Process

3.1.3 OCR Process

At this point, there is a new set of processed images. These images will be run through the OCR tool to produce text. See Figure 3.6. Each original image will also be processed through the OCR tool. The OCR tool used in this research was the Tesseract tool. This tool is the most widely used open-source OCR tool and is still actively developed on by a Google team [9]. The text output for each original and processed image will be tested for similarity against its corresponding test-text.

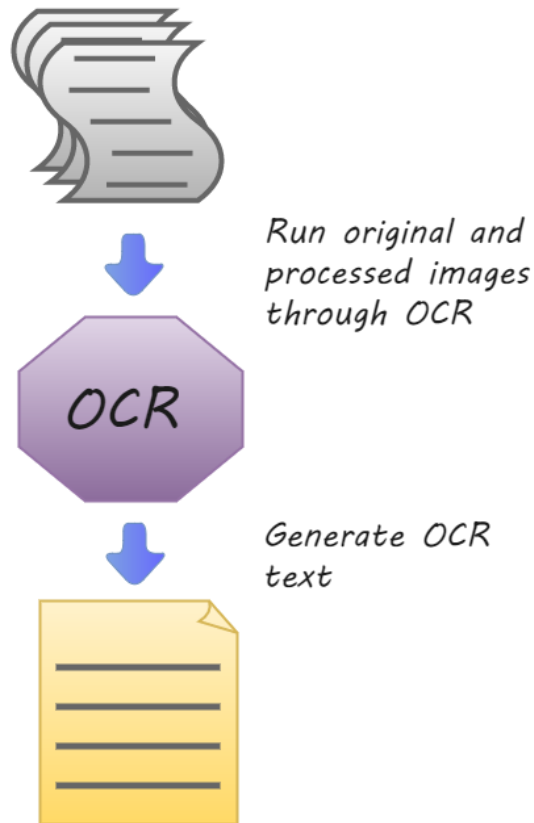


Figure 3.6: OCR Process

3.2 Testing Methodology

The research took a practical, empirical approach. The results are observable as measurable percentages of gain or loss in OCR output correctness. This section will describe the test set used and why it was selected. Also, how the technique was applied to the test images and the mechanism used to test whether or not the noise removal had an effect and the impact level thereof.

3.2.1 Data

There are two image datasets and three text datasets. From each original image, a processed image was generated by applying the noise removal technique. These form the two image datasets. From each image, original and processed, OCR text is generated. This creates two of the text datasets.

Each of these outputs will be compared to an equivalent test-text to measure similarity. This is the third text dataset. The test-text matches what the text should

look like should the OCR transcribe the image perfectly. Hence, the more similar the OCR output, generated from the images, is to the test-text, the more correct that generated OCR is. The test-text is manually transcribed and not tool-generated.

The initial set of images was originally twelve images – six from The African Standard and six from The Gold Coast Leader newspapers. They were chosen from different issues and different dates. Later in the testing, seven more images were added to the dataset from The African Standard. The reasoning will be explained in the Results section.

The images used in the experiment can be found in Appendix B. The images selected for training were images 2, 5, 6, 7, 11 and 12. Later, image 1 was also used for training.

The images are cropped from images of full newspaper pages to keep the generated MSER sample size small. A half page image can generate over nineteen thousand MSERs. The number of MSERs needed to be kept to an acceptable size to keep the procedure at a reasonable timeframe. The selected images generated an average of about 5000 MSERs per image. The choice to keep the image sample small was due to the large amount of time the manual creation of the training data and OCR test files took. As it is, the generation of the OCR test data took about two weeks and the training file took one week. The classifier training was fairly quick, taking about ten hours.

The images include ink flecks, fold lines and bleed-through.

The dataset was kept small because the data needed to run through all available supervised learning algorithms in the MATLAB[®] program. Cross validation was also applied to the training. This also increases the training run time. A small dataset allowed for an acceptable training time.

Cross validation provides some protection from over-fitting. An over-fitted algorithm will work well specifically for the data used to train the algorithm but not for other samples.

The particular type of cross validation applied was k-fold validation. K-fold validation means that the training file records are split into k sets. These sets are referred to as folds. The folds are as equal in size as possible. There are k

repetitions of training cycles. In each repetition, a different fold is selected as the testing set. The remaining folds are used to train the algorithms. After the repetitions, the average accuracy is calculated from the number of correct classified records divided by the total count of records in the training file. Each record forms part of the testing set once [31]. Use of k-fold increases the training run time – another reason to keep the data set small.

The processed images are created by having the classifiers determining which MSERs from those images are categorised as noise, and removing them from the image. OCR output will be processed from each original image and from the processed version of each image. Each OCR output was compared to its equivalent test-text.

The text-tests are manually transcribed versions of each image. They represent what the perfect OCR output of each image would be. Each images OCR texts will be compared to the images corresponding test-text. Hence there will be three texts for each image. One test-text, one OCR text output from the original image and one OCR text, generated from the processed version of the image.

The final measured outcome of the research was a value which represents how similar the texts were. The more similar the OCR output is to the test-text, the better. A perfect result would mean that the generated OCR text was an exact match to the test-text.

In order to calculate similarity, the Levenshtein distance algorithm was used. The distance value indicates how many character changes are required to make one text look like another. The character changes refer to how many times a character would need to be added, removed or substituted in order for the one text to be made to look like the other. The smaller the distance value, the closer the two texts are to being an exact match.

The results need to indicate the similarity scores. A table needs to be produced indicating the similarity to the test-text, of the OCR from the original images and then the OCR of the processed images. Table 3.2 is an example of the required results.

Table 3.2 Levenshtein distance results.

Image	Levenshtein distance from original images OCR text	Levenshtein distance from processed images OCR text	Percentage improvement
1	a	b	$((a-b)/a) * 100$

The second column holds the Levenshtein distance score from the comparison of the original images text to the test-text. The third column contains algorithms score from the comparison of test-text and the OCR text produced from the processed image. An improvement percentage can be calculated from the ratio of the distance values. Figure 3.7 illustrates the calculation process just described.

This section describes the image datasets, the test datasets and the results (similarity) data that is required to evaluate the experiment outcome. The next section will describe the method used, in detail.

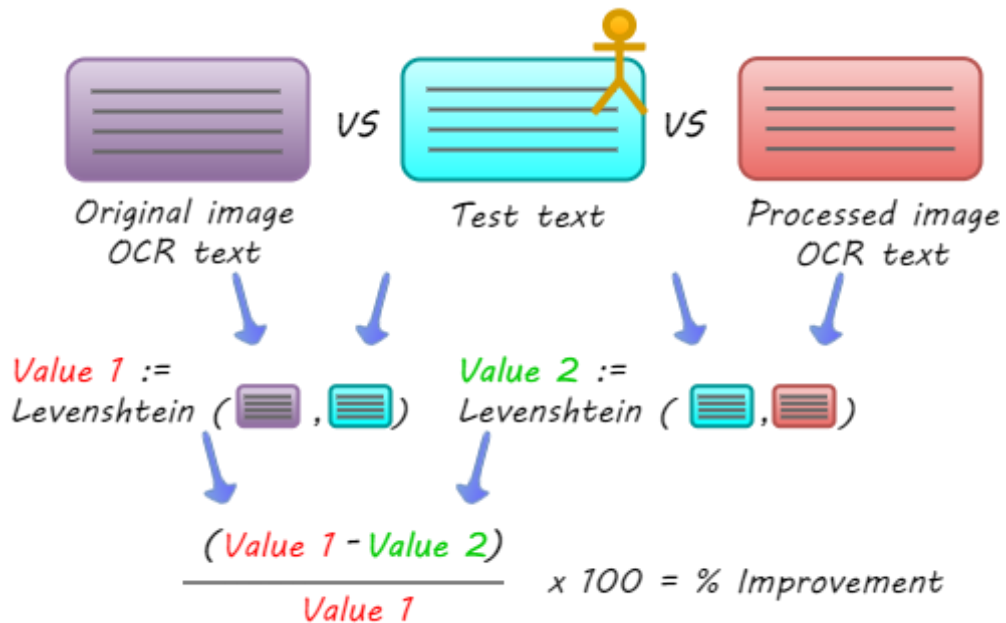


Figure 3.7: Improvement ratio of OCR output

3.2.2 Methodology

Three sets of OCR need to be created per image. Each image will have test-text, pre-processing OCR text and post-processing OCR text. Figures 3.8 to 3.10 illustrate the processing required to produce the OCR texts. Once processed, the texts will be compared to each other using the Levenshtein distance algorithm.

The testing will also involve text normalisation. Normalisation involves removing punctuation, extra white space and line breaks. White space is a character that represents a space between other characters. Sometimes when transcribing, the OCR tool inserts more spaces between words, than is necessary. Line breaks indicate the start of a new line. These elements are removed because they are more related to the text format than the text content and should not have a bearing on whether the content of two texts are similar or not.

The test-text will be produced by manual transcription – figure 3.8. The pre-processed image OCR output will be produced by running the unaltered images through the OCR tool – figure 3.9.

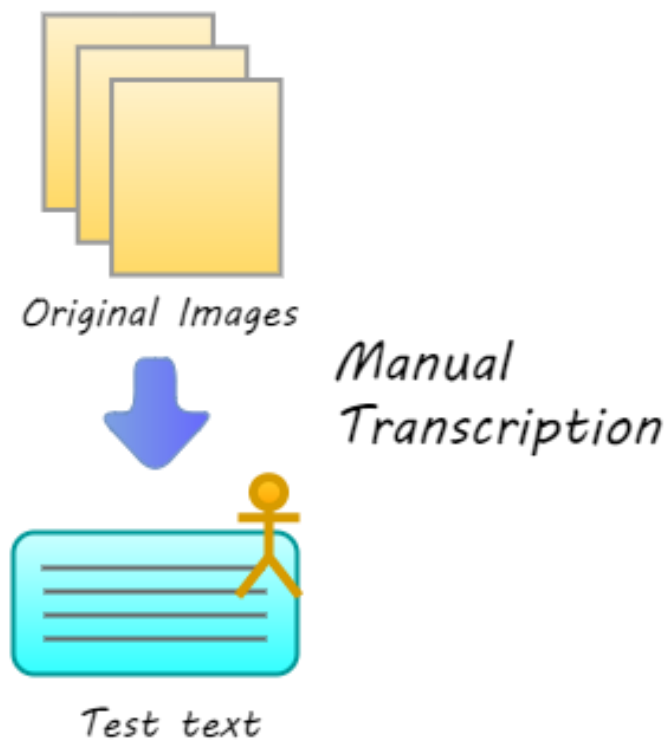


Figure 3.8: Manual Transcription will produce the test-text

There are more steps required for producing the post-processed images OCR, including the classifier training. The classifiers were trained on properties of the MSERs from six of the twelve images – three from each newspaper.

The MSER properties/features which were used were:

- the major axis,
- the minor axis,
- pixel count and
- region orientation.

The training file was created by writing the region features as records, into a file.

These records were manually categorised as either a noise record or not. This file serves to feed correctly categorised records into the classifiers so that they may learn how to categorise records like these into noise or not noise.

The classifiers were trained using the cross validation method. In particular, k-fold validation was used. This means that the training file records are split into k sets. These sets are referred to as folds. The sets should be as equal in size as possible.

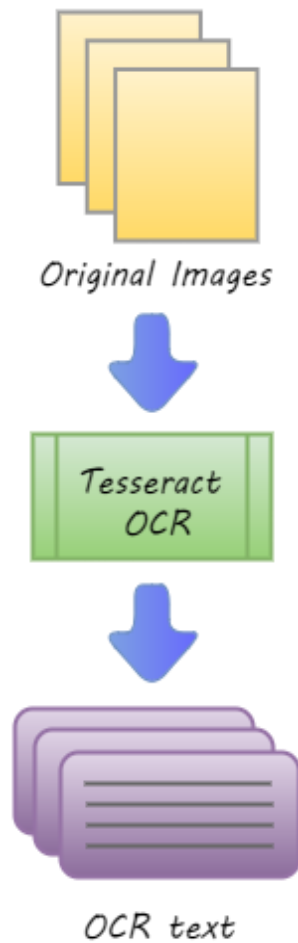


Figure 3.9: OCR text from original images

There are k repetitions of training cycles. In each repetition, a different fold is selected as the testing set. The remaining folds are used to train the algorithms. After the repetitions, the average accuracy is calculated from the amount of correct classified records divided by the total count of records in the training file. Each record forms part of the testing set once. The classifier training was run using $k=5$ and $k=10$. It was found that running with 10 folds made no difference to the results. These results have been omitted from the paper.

Once the classifiers were trained, they were used to classify the MSERs generated from all the images – including those used in the training set. This produced a result file indicating which regions were noise and should be removed. Using the results in this file, the processed images were created by removing the regions classified as noise. A fresh set of OCR text was generated from the processed images. Figure 3.10 models the process of generating text

from the images. The actual OCR generated from both the original and processed images can be reviewed in Table A2, in Appendix A.

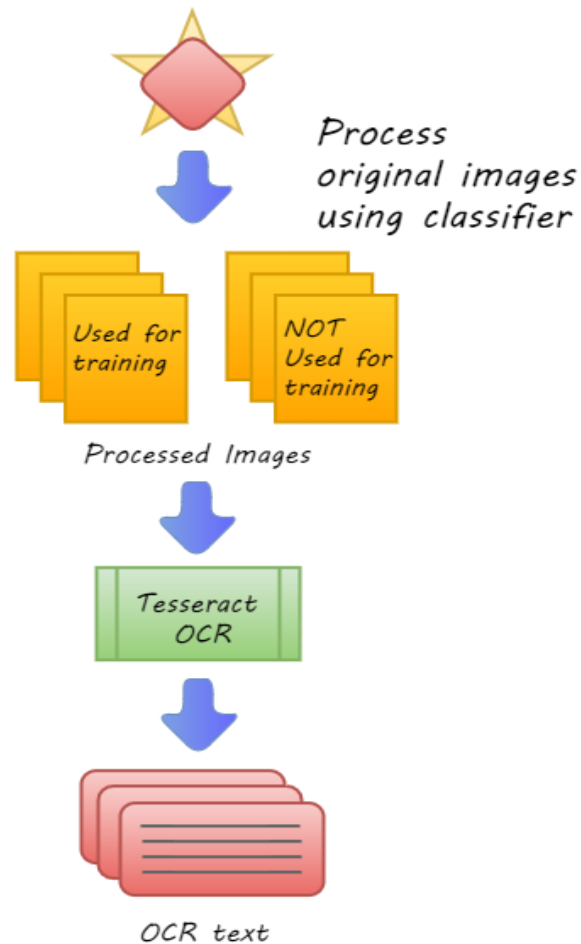


Figure 3.10: Generate OCR text from processed images

From here, the generated OCR text datasets were available to be compared to the test-text. An ideal result would be at least a 30% improvement in the distance values, from the OCR of the processed images.

This chapter provided many illustrations to explain the technique which was to be used to remove noise from a set of images, cropped from historical newspapers. The technique consists of extracting MSERs from the images, using some of the images' MSERs as training data. Training all available classifiers and selecting the best one. Finally, producing new versions of every image. The OCR from the original and processed images were compared to their perfect representations. A

comparable difference between the OCR from the original images and the OCR from the processed images indicates any improvement or degradation in the OCR output quality. The results of the comparison tests are discussed next.

4. Results Analysis

The experiments offered up various results. It turns out that the technique is best applied at a narrower, publication issue-level. In other words, using images from across many issues of the newspaper and trying to remove noise from across many issues in one processing run, did not work consistently. The most consistent results were produced when using training data from a particular issue, in order to clear noise from the pages in that issue only. This section discusses the experiments were carried out, what results were produced and why the above conclusion came to be. Only the most relevant results have been presented.

Although no assumptions about the data were made, an observation of the data showed that there was high variance in the image and training data sets. The tables in Appendix D indicate how widely the standard deviation differed from the mean, which indicates that the data was spread out over a broad range of values.

The most dominant classifier across all tests was the Ensemble Bagged Trees classifier, though the Cubic KNN (k-Nearest-neighbour) classifier was dominant for one particular training set.

4.1 Initial Test Run Results

The technique was originally applied to two separate datasets – sets of images from different issues of two different newspapers – The African Standard and The Gold Coast Leader. The original images and the final processed images can all be found in Appendix B.

Images 7 to 12, from The African Standard newspaper, all had positive results, although they did not all achieve the desired level of more than 30% improvement.

The winning classifier for the training data taken from images 7, 11 and 12 of the African Standard data set, was an Ensemble Bagged Trees classifier. Its percentages were:

- Accuracy: 95.5%,
- Precision of 93.3%
- Recall of 94.4%.

The confusion matrix, indicating the number of true and false positive; and true and false negative results can be seen in figure 4.1. Out of a total of 17445 training characters, the majority of these were noise elements. 434 character elements were incorrectly identified as noise (false negatives) and 357 noise elements were identified as characters (false positives).

		Actual	
		Character	Noise
Predicted	Character	6003	434
	Noise	357	10651

Figure 4.1: Confusion matrix of test run for African Standard Newspaper

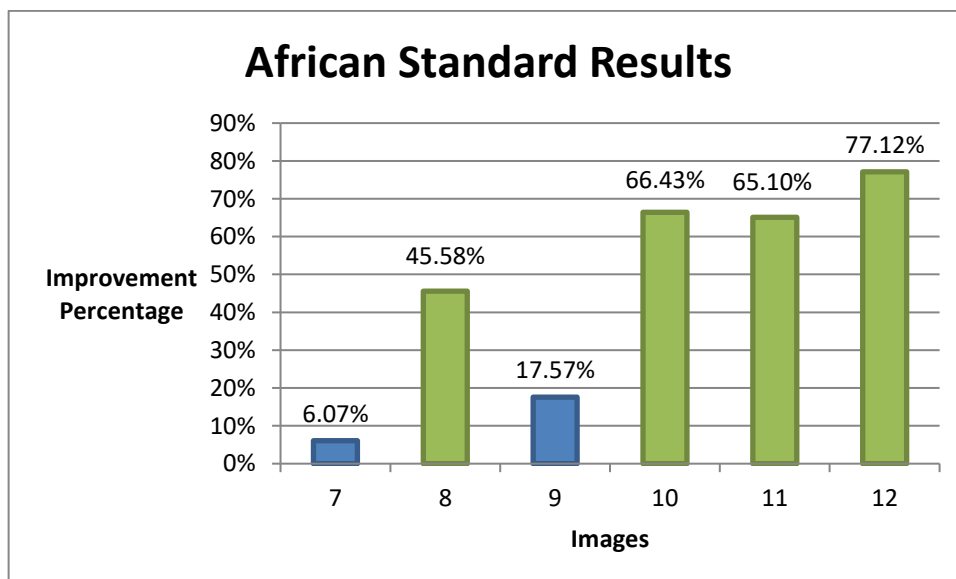


Figure 4.2: Results of test run for African Standard Newspaper

Looking at the African Standard results, figure 4.2, it seems as though running the technique, with a few examples from different issues to serve as training data, could work to remove some amount of noise across multiple issues of a newspaper as four out of the six improved by over 45% and all of the images showed some improvement. The Gold Coast Leader results however, did not agree with this outcome.

The Gold Coast Leader results included some images which not only saw no improvement but in fact saw a decrease in OCR output correctness as shown in figure 4.4.

The test images of 2, 4 and 6 from Gold Coast Leader which produced 13 177 test record found that the best performing classifier was an Ensemble Bagged classifier as well. The confusion matrix for this classifier can be seen in figure 4.3.

The classifier produced the following percentages:

- Accuracy: 96.2%
- Precision: 94.3%
- Recall: 94.9%.

The next section looks into what went wrong with these images.

		<u>Actual</u>	
Character	4438	237	
Noise	268	8234	
		Character	Noise
		<u>Predicted</u>	

Figure 4.3: Confusion matrix of first test run for Gold Coast Leader

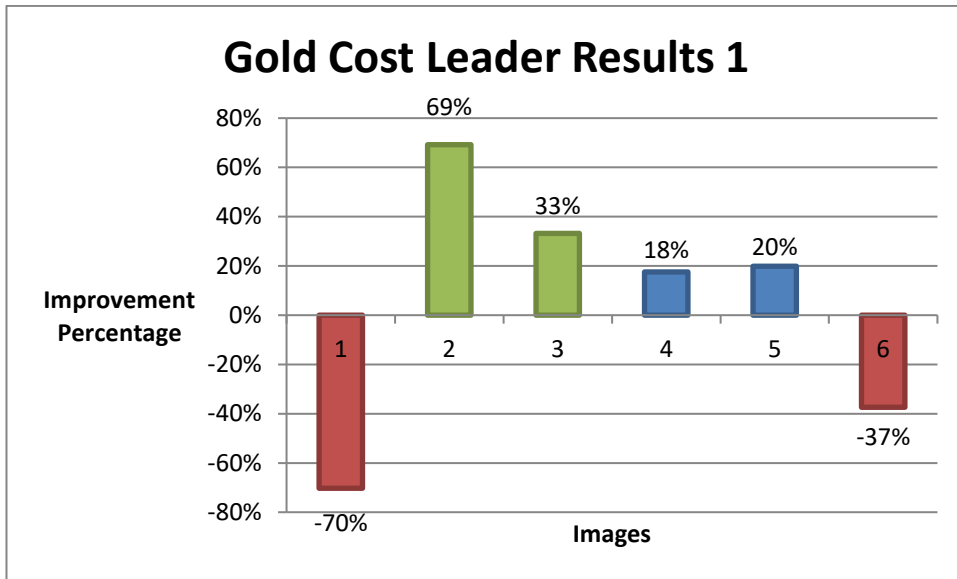


Figure 4.4: Gold Coast Leader results after first test run

4.2 Investigations

Images 1 and 6 produced worse quality OCR text after the application of the technique than they had before. It was also for different reasons. See below images 1 and 6, specifically from this data run. Appendix E contains the OCR extracted from these two images, from this first test run, see figures E1 and E2

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Another correspondent writes from Sekondi with the remark on an untimely price of the Sekondi sugar and the Company's endow the latter a Manager, etc. plus bitterly set the sugar state for

Figure 4.5: Image 1 from 1st Gold Coast test 1

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Figure 4.6: Image 6 from 1st Gold Coast test 1

4.2.1 Broken Characters

The characters in image 1 are what one might call 'broken' characters. A broken character is one where the character is not solid throughout. It is not formed from one region. Figure 4.7 was extracted from the original image 1. This image demonstrates the problem. Many of the characters in this image consist of more than one coloured region. Most of the characters are made up of multiple colours, which indicates that they are broken and not whole characters. Having some broken characters is not uncommon in this dataset. However, image 1 consists almost entirely, of broken characters.

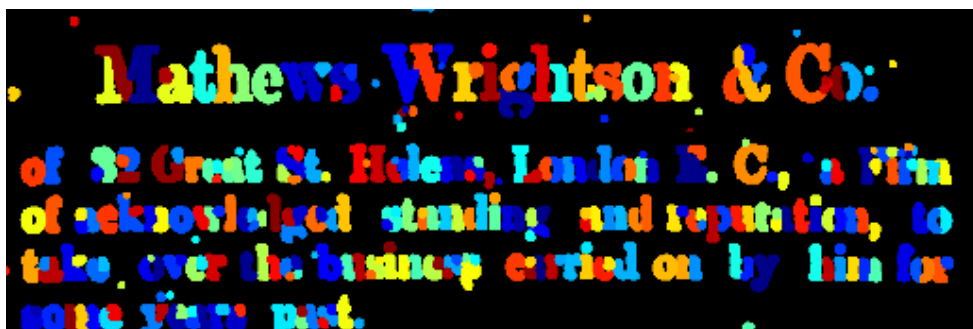


Figure 4.7: Broken characters

The decrease in OCR output quality occurred because there were not enough broken characters included in the training data. These smaller regions, of the broken features, will have different feature values. The training data for The Gold Coast Leader contained the MSER data from images 2, 4 and 6. No training data was included from image 1.

If these are not included in the training data then parts of these characters are likely to be classified as noise. Figure 4.8 shows the same extract from the post-processed image. The text quality is greatly reduced. Some of the regions which formed part of the characters were incorrectly classified as noise and removed.

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Figure 4.8: Decrease in quality after processing

To confirm and check the consistency of this result, more images were selected and cropped from The Gold Coast leader. Image 13 was cropped from the same full page as image 1, image 14 was selected from the same issue as image 1 but a different page and Image 15 was from another issue of the newspaper. The results of processing these images, using the same classifier, are in figure 4.9.

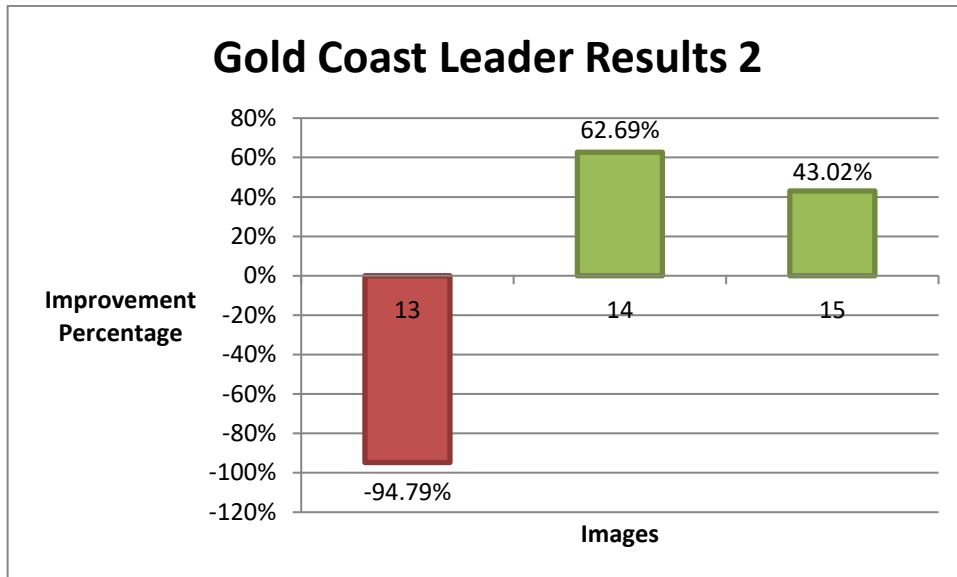


Figure 4.9: Gold Coast Leader’s second run to confirm image 1’s problem

As with image 1, image 13 also experienced negative results. This was expected as the images formed part of the same page of the newspaper. Image 14 produced different results. Image 14 was from the same publication issue but not the same page as 1 and 13. Image 14 did not suffer from broken characters and in fact had a good OCR improvement of 62.69% post-processing. This information plays a role in how one needs to select the training data, discussed later.

To overcome the broken character issue of image 1, the training data needed to be bolstered by adding MSERs of the broken characters. Image 1 (but not 13) was added to the Gold Coast Standard’s training dataset. Once retrained, the classifier and noise removal process was run again. This time, image 1 improved dramatically and image 13 was at least in the positive. This does indicate some overfitting for image 1 and the data should be selected differently, possibly from across more examples, to remove the bias but this result does indicate that addition of these broken elements is required and should be considered for this dataset and those similar to it.

The winning classifier for this training set was also an Ensemble Bagged Trees. Figure 4.10 displays the confusion matrix for this classifier.

		Actual	
		Character	Noise
Predicted	Character	7023	551
	Noise	592	8895

Figure 4.10: Confusion matrix for classifier trained on images 1,2,4,6.

The classifier had the following percentages:

- Accuracy: 93.3%
- Precision: 92.2%
- Recall: 92.7%

This time, image 15 produced a negative outcome. From 43,02%, before the addition of image 1 to the training set, it changed to a negative result of -55,47%. Figure 4.11 illustrates the results of this third processing run.

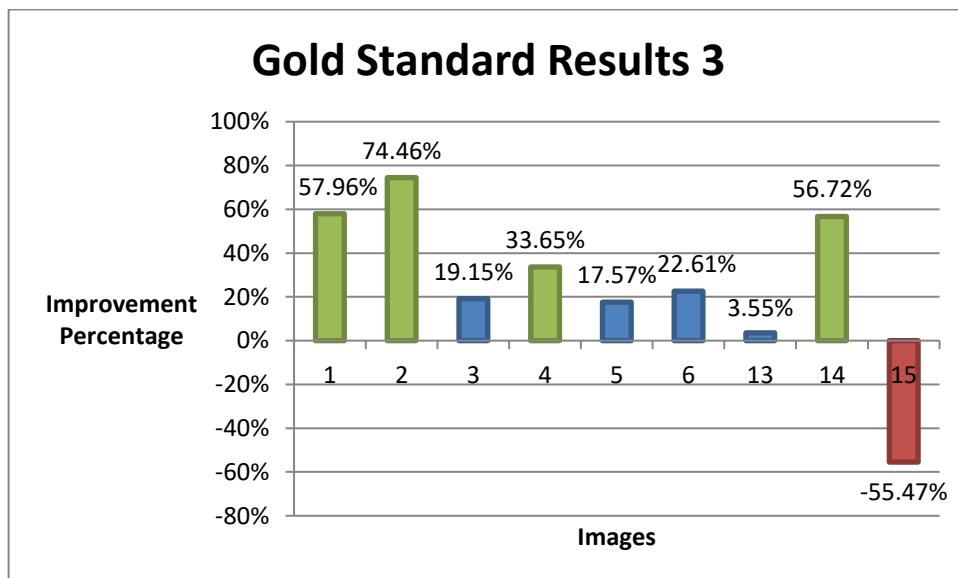


Figure 4.11: Training data consisted of images 1, 2, 4 and 6

This was the first indication that the MSER data could vary widely across issues. This can make algorithm tweaking difficult for the classifiers and produce results like this one. Simply adding image 1 did not improve image 1 and 13 greatly. In this test run, image 15, previously producing a positive result post-processing, produced a negative result. More about the data is discussed in section 4.4.

Another test was conducted. This test used image 1s MSER data only, as the training dataset. The training was run multiple times (as it was for very training set) and ultimately, the winning classifier for this training set was Cubic KNN (k-Nearest-Neighbours).

The percentages for this classifier were:

- Accuracy: 91.5%
- Precision: 93.3%
- Recall: 95.4%

The confusion matrix for this classifier is displayed in figure 4.12. The results for the application of the classifier to the full Gold Coast Leader image test set are in figure 4.13.

<u>Actual</u>			
Character	2765	134	
Noise	197	788	
	Character	Noise	
		<u>Predicted</u>	

Figure 4.12: Confusion matrix for classifier trained on image 1 only.

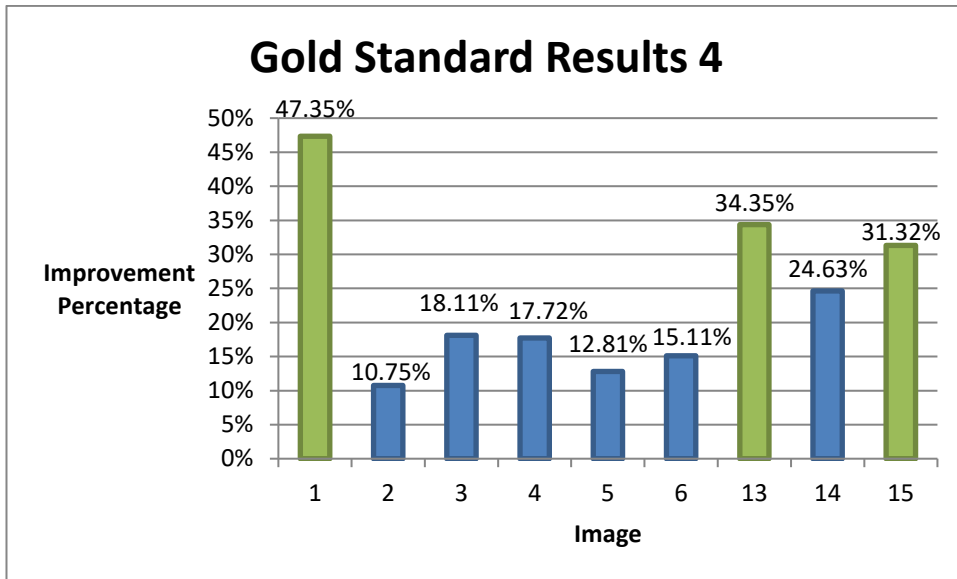


Figure 4.13: Training set consisted of image 1's MSERs only

This training set worked well for image 1, 13 and 15. Image 14 almost made it to 30%.

Recall the origin of the images: Image 1 and 13 came from the exact same newspaper page. Image 14 is from the same newspaper issue, but a different page. The next question was, would the same classifier, trained on image 1's MSER data, work well for the entire newspaper from which image 1 came?

Another processing run was prepared. This run included all images from the entire issue, from where image 1 originated – The Gold Coast Leader 3 January 1903.

All four full pages of the issue were run through the process. They were named images 16, 17, 18 and 19. For context, image 1 and 13 were cropped from image 16. Image 14 was cropped from image 19.

Figure 4.14 displays the results relevant to this processing run.

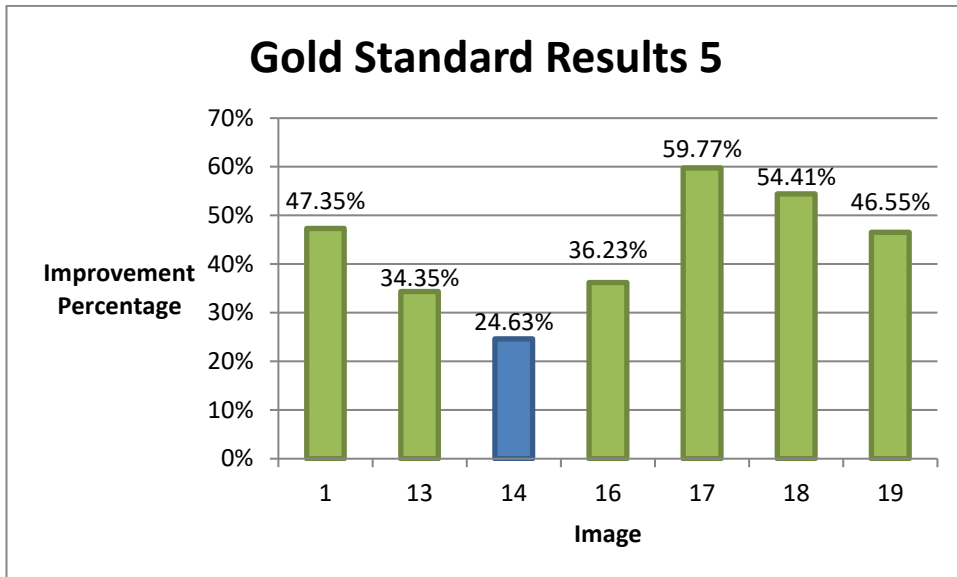


Figure 4.14: Image 1 training data on same issue

It was this run that led to the conclusion that the processing should likely be run on an issue by issue level, and not for an entire newspaper set. This makes sense when one considers that different printers, different fonts and even different noise can occur across pages from different issues.

Pages from the same issue are not guaranteed to be alike and have similar regions but the MSERs from an issue are more likely to be more similar than MSERs across multiple issues.

This data is complex. The values of the different features do not conveniently cluster. This can be seen by the dominant classifiers which produced the best results. This is discussed further in section 4.3

In the first Gold Standard processing run, image 6 also exhibited problems. This image is examined next.

4.2.2 Misread Layout

Image 6, as seen in figure 4.15, had a different challenge from that of image 1. The OCR output indicated that the OCR tool was interpreting the page layout incorrectly.

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Figure 4.15: Paragraphs OCR'd on Image 6

There is some remaining noise between columns 1 and 2. This likely affected Tesseract's ability to gauge spacing between columns 1 and 2. It also appears as though the headings at the top of each column, being different fonts, caused the OCR tool to not read the columns completely from top to bottom. Rather than reading each column top to bottom, the tool read paragraphs across the page, left to right.

Figure 4.15 shows the different paragraphs as read by the OCR tool. The paragraphs of the first two columns were read across. Only column three was correctly read as one paragraph. One block especially indicates the problem – the largest green block. Not only were the sections read from left to right but the line between the columns, in that block, were completely ignored. This also led to some sentences not being read at all.

Image 6 produced a negative result on the first Gold Coast Leader processing run. Figure 4.16 shows the post-processed version of image 6 for that test run.

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Figure 4.16: Post-processed image 6, Gold Coast Standard Run 1

Newspaper content tends to be organised in columns. Tesseract has a certain way of working when it tries to read an article. Should the columns be separated by lines, Tesseract removes those lines from the images and uses spacing/whitespace between columns to separate articles. This allows the same code to work on images of newspapers which use lines and those which use spacing, to organise the columns.

The lines may not get properly removed if the lines are not intact and are broken. Also, if the spacing between columns is insufficient, there may be problems with the columns being read correctly. This looks to be the case with this image. The flaw here is that the layout element – the lines and headings, were not well utilised.

Layout elements, like lines, are distinctive. In this project, lines were treated as noise, but it is possible to classify lines as lines – separate from noise and character elements. Classifying lines into vertical and horizontal lines, including incomplete, partial lines, could be of use to overcome the deficiency at the OCR step of the pipeline.

The headings are also distinguishable. Fonts of larger heights can be distinguished as heading elements. It is possible to classify these regions as other types of elements and introduce a layout processing step which can be

used for documents with broken layout elements. Although this was out-of-scope for this paper, there is more on this in Chapter 6.

The classifiers offer more insight into the complexity of the data. This is discussed next.

4.3 The Classifiers

Ordinarily one might decide to look at the data beforehand and decide on a few classifiers to try. This research took the opposite approach for two reasons: There are no currently prescribed/standard classifiers to use when working with MSER data, and assumptions about the data were specifically not made. Classifiers are designed to determine heuristics for classification based on the training data provided. These are often better than what a person would prescribe as sorting rules.

The most dominant classifier was the Ensemble Bagged Trees classifier. Only one training set produced a different dominant classifier for multiple runs of the same training data.

In order to determine the most dominant classifier per training set, each set of training data was run through the classifiers multiple times. The only training set which produced an inconsistent dominant classifier was the training set which consisted solely of image 1s MSER data (Gold Standards Result 4).

It would return with the winning classifier as either the Ensemble Bagged Trees classifier or the Cubic KNN classifier, in the accuracy range of 91.6 – 91.8. Ultimately a classifier of type Cubic KNN, with accuracy 91.7 was used for processing, as this classifier result was produced the most frequently.

The fact that these classifiers were the main contenders out of the 23 in total, says a lot about the dataset, especially about its consistency for high variance. The next sections delve more into how these dominant classifiers work and why they became the prominent classifiers for this dataset.

4.3.1 Ensemble Bagged Trees

The MATLAB[®] Bagged Trees Algorithm, used by the Ensemble Bagged Trees (EBTs) classifier, is an implementation of the Random Forest algorithm created by Leo Breiman [32]. It is described as a *forest* because it is a collection/ensemble of decision *tree* classifiers [33]. By default in MATLAB[®] an ensemble consists of thirty trees.

A decision tree looks like a flow chart. It is a useful way to organise and display an algorithm. An example is displayed in figure 4.17.

Many trees form an ensemble or a forest. Breiman's Random Forests are a collection of trees which get their training data by selecting a randomized portion of the full training dataset. The method is called Bagging.

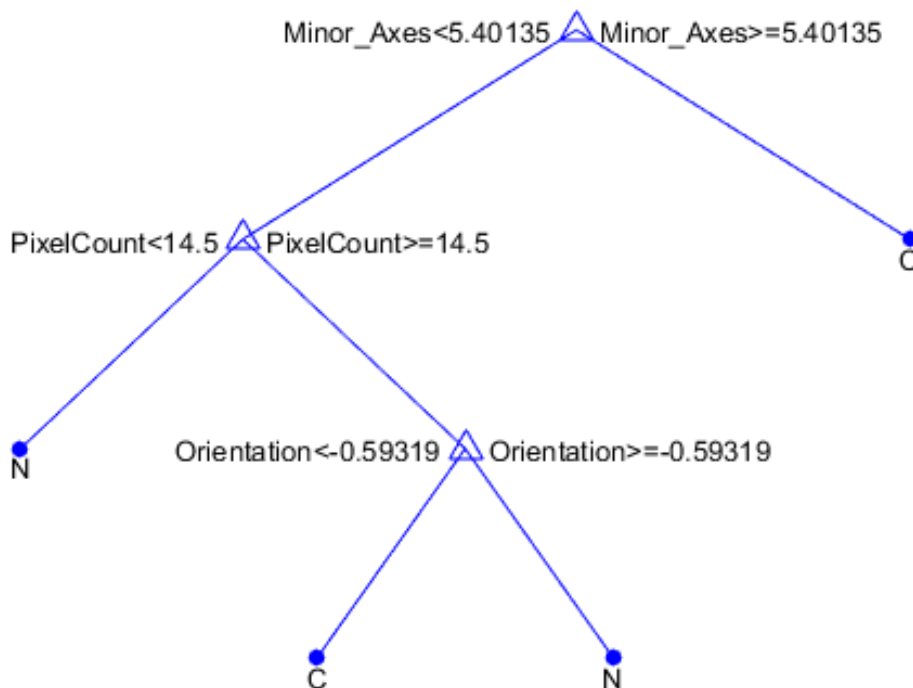


Figure 4.17: Example of decision tree

A bag is a sub-selection of data which is randomly selected from the full training set. Each tree in the forest will be trained with a different bag [34].

Besides potentially not using the full set of training data, in the bag, it is possible that not all of the features are selected either. Only some features may be selected for use. This helps to reduce bias.

When classifying a record as noise or character, all the trees are used to determine the classification. The classification selected/voted for by the most trees, is the final result of the forest/ensemble.

The dominance of the EBTs classifiers indicates that the data naturally has a lot of variance. The data-points are not neatly arranged into contained sections on a graph and not simply separated. A number of simple algorithms used together can tackle a high-variance dataset better than a single very complex algorithm. See a simplified example in figure 4.18. Using different lines, the scattered data can still be sorted (green and blue data points). The single, more complex function on the right simply cannot separate the data points as well as the ensemble can.

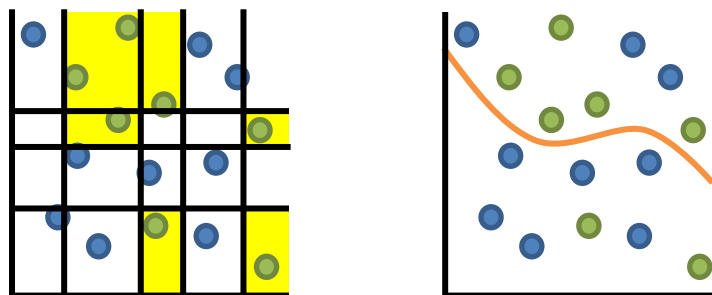


Figure 4.18: Simplified ensemble versus single function

Random Forests were also the dominant classifier found in Greenhalgh and Mirmehdi's study [29]. It was the best performing classifier out of a choice of Random Forests, SVMs and Multilayer Perceptrons. This outcome, together with this paper's findings, usefully indicates that Random Forests are likely a good algorithm match for MSER data.

There are some requirements for Random Forests. For one, they need a large training set. They are generally one of the slower classifiers to use. They can also be memory-intensive [32].

For each of the EBT classifiers found for the newspaper datasets, each tree in the ensemble made use of all four features. Although a tree is easy to follow graphically, they were quite large and not easy to display as an image. Instead, Table 4.1 displays some node counts per EBT.

Branches contain conditions on which to split and a record will follow the branch until it reaches a leaf, which indicates a classification of 'Character' or 'Noise'. On average, branches mostly were formed of a conditional on the value of the Major Axes feature. The feature branched on the least was the Pixel count. Figure 4.19 indicates how dominant each feature was on average all thirty-trees in all three EBTs. There is no feature that drastically dominated and no feature that was not used. The features were well-balanced in their use across the classifiers.

The Gold Coast Leader classifier, with training data from images 1, 2, 4 and 6, was the only ensemble to have more leaves with an outcome of 'Character' rather than 'Noise'. There is also a large difference between the 'Character' and 'Noise' leaves of this classifier. These differences from the previous classifier (trained without many Broken Characters, which image 1 provided) attests to the importance of including Broken Character data in the training set.

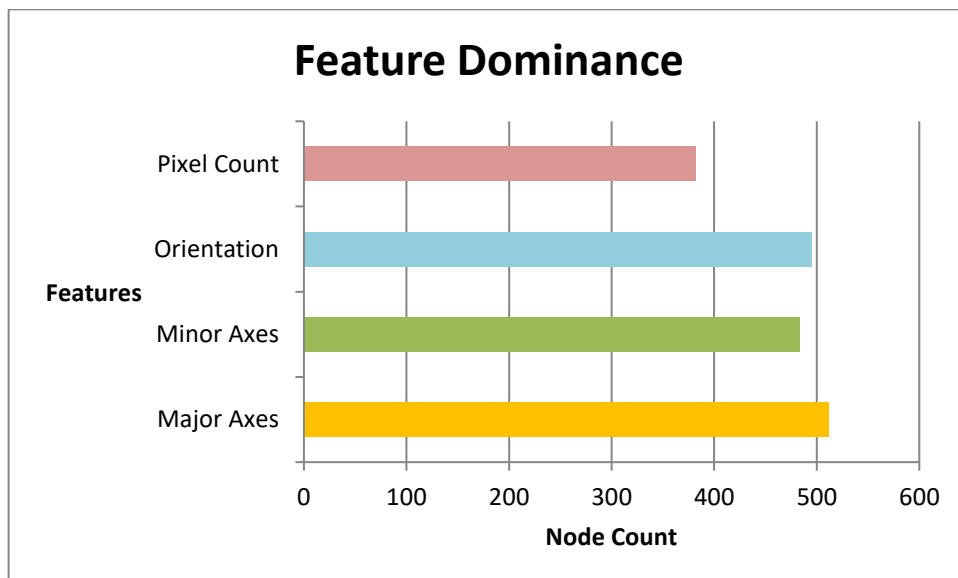


Figure 4.19: Feature dominance across all trees for all EBTs

Table 4.1 EBT Observaions

	African Standard Test 1	Gold Coast Leader Classifier Trained on images 2,4,6	Gold Coast Leader Classifier Trained on images 1,2,4,6
Average number of nodes in Tree	1186	854	1705
Average number of branches	593	426	852
Average count of branch with condition on Major Axes	163	116	233
Average count of branch with condition on Minor Axes	153	108	222
Average count of branch with condition on Pixel Count	124	90	168
Average count of branch with condition on Orientation	153	112	230
Average number of leaves which result as class 'N'	320	229	259
Average number of leaves which result as class 'C'	274	198	394
Difference between 'N' count and 'C' count	46 more 'N' leaves	31 more 'N' leaves	135 more 'C' leaves

The training of image 1's data did not have an EBT as its only dominant classifier. Out of multiple rounds of training, although EBT's did appear, the Cubic KNN classifier appeared the most often. The next section reviews what KNNs are and how they work.

4.3.2 Cubic KNN

When determining the class of a data-point, the KNNs (k-Nearest-Neighbours) classifiers use the distance of said data-point from other, already classified data-points to find said point's neighbours. The majority classification held by those neighbours determines the data-point's class [35].

For example, see figure 4.20. The orange dot requires classification. As it is closest in distance to the green dots, it will be given the same class as them. The k variable indicates how many neighbours should be examined when determining classification. $k = 2$ would mean that the class of the two closest neighbours would be used to determine the class of the data-point in question.

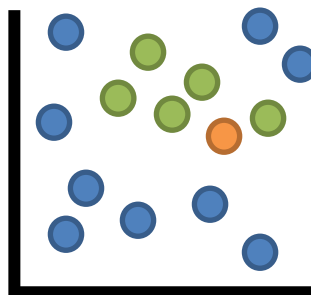


Figure 4.20: Classification using KNN

Distance between neighbours is calculated using a distance algorithm. In the case of a cubic KNN, a cubic distance function is used to determine the nearest neighbours. In MATLAB[®], $k = 10$ [32].

KNN is useful when data points cluster/group together, on a graph. The recurrence of this classifier during trial training runs indicates that, although the MSER data has high variability, it is not uniformly scattered and there are in fact patterns of data congregation. Recall though, that this classifier was only dominant for one training set and was not consistently dominant on all training runs of that training set. Although the data may cluster slightly, the clusters are

not consistently distinct enough to make the use of the KNN classifier, reliable in the pipeline. The automate-ability of the pipeline relies on a reasonably consistent classifier.

4.3.3 Post-Classifier-Selection

After the selection of a dominant classifier, one would be able to continue with improving on the classifier accuracy. This may include collecting better test data, tweaking the ensemble and/or adding more features to the training data. As with many machine learning applications, it may take numerous tweaks to training data and algorithm configuration to an acceptable accuracy level. A researcher making use of this technique can choose to continue to improve on the classifier or not.

4.4 The effect on noise

Earlier, three types of noise were identified. An objective of the testing was to discover which types of noise the technique may or may not work for. This section will look at examples of that noise and how they fared against being exposed by the technique.

4.4.1 Ink bleed-through

The images exhibiting bleed-through unfortunately saw little improvement. Although the human eye can see two distinct text sizes on the image, because the letters overlap, their MSERs do as well. The bleed-through letters did not form separate MSERs. Instead the pixels of the bleed-through characters and the pages true characters merge. They form part of the same MSERS and therefore were not able to be classified as noise and removed. Figure 4.21 shows image 9 before processing (first image) and post-processing (second image). This image only experienced an improvement of 17.57%

It is possible to remove bleed-through that does not overlap with the underlying text however. It does not remove all non-overlapping bleed-through text perfectly but the partial removal of the bleed-through can improve OCR quality

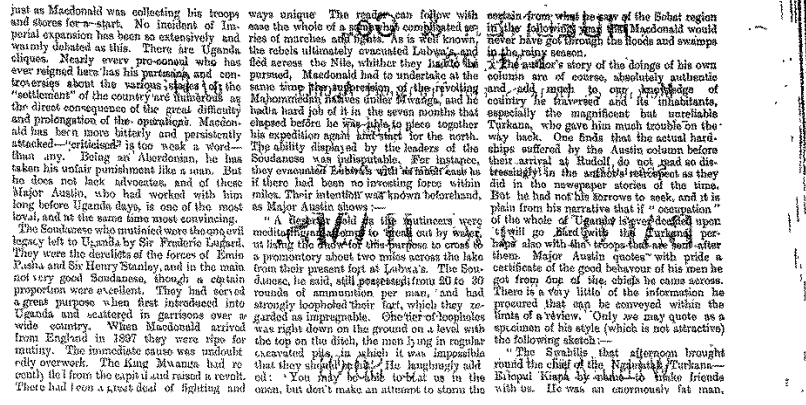
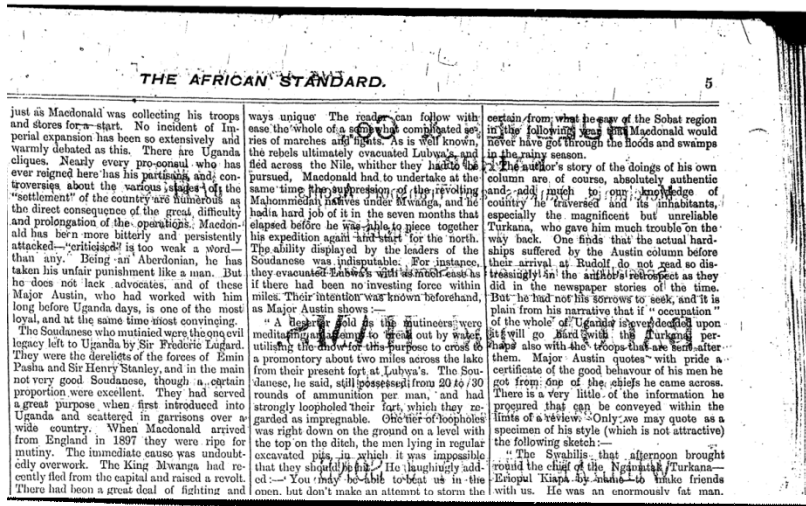
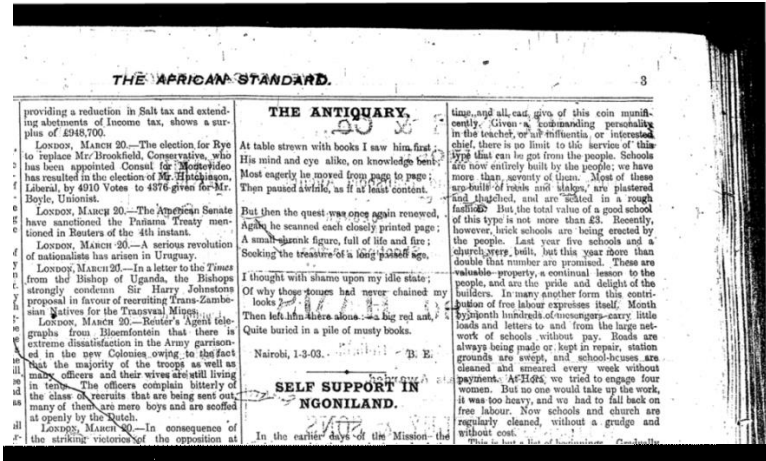


Figure 4.21: Image 9 original vs processed

Figure 14.22 shows image 11s transformation. The image experienced a 65.10% improvement in OCR correctness.

4.4.2 Ink flecks

The technique in this paper was successful in removing this type of noise. Image 2 contained a high-level of ink flecks. Figure 4.23 displays the pre and post-processed images. After the addition of image 1 to the training data set, image 2 saw an improvement of OCR correctness of 74.46%. Ink flecks are abundant in the African Newspapers database. If the technique works for no other noise, it still offers a valuable improvement opportunity to the remove the most prevalent noise from historical newspaper images and greatly improve OCR results.



THE AFRICAN STANDARD.

providing a reduction in Salt tax and extending abatements of Income tax, shows a surplus of £248,700.

LONDON, March 20.—The election for Rye to replace Mr. Brookfield, Conservative, who has been appointed Consul for Montevideo has resulted in the election of Mr. Hilditch, Liberal, by 4910 Votes to 4378 given for Mr. Boyle, Unionist.

LONDON, March 20.—The American Senate have sanctioned the Panama Treaty mentioned in Reuters of the 4th instant.

LONDON, March 20.—A serious revolution of nationalists has arisen in Uruguay.

LONDON, March 20.—In a letter to the Times from the Bishop of Uganda, the Bishops strongly condemn Sir Harry Johnston's proposal in favour of recruiting Trans-Zambesian natives for the Transvaal Mined.

LONDON, March 20.—Reuters' latest telegrams from Bloemfontein state that there is extreme dissatisfaction in the Army garrisoned in the new Colonies owing to the fact that the majority of the troops as well as many officers and their wives are still living in tents. The officers complain bitterly of the class of recruits that are being sent out, many of them are mere boys and are scoffed at openly by the troops.

LONDON, March 20.—In consequence of the striking victories of the opposition at

THE ANTIQUARY.

At table strewn with books I saw him first.
His mind and eye alike, on knowledge bent;
Most eagerly he moved from page to page;
Then paused awhile, as if at least content.

But then the quest was once again renewed,
Agle he scanned each closely printed page;
A small, shrunken figure, full of life and fire,
Seeking the treasure of a long-past age.

I thought with shame upon my idle state;
Of why those stones had never chained my
loose feet;
Then left him there alone—A big red ant,
Quite buried in a pile of musty books.

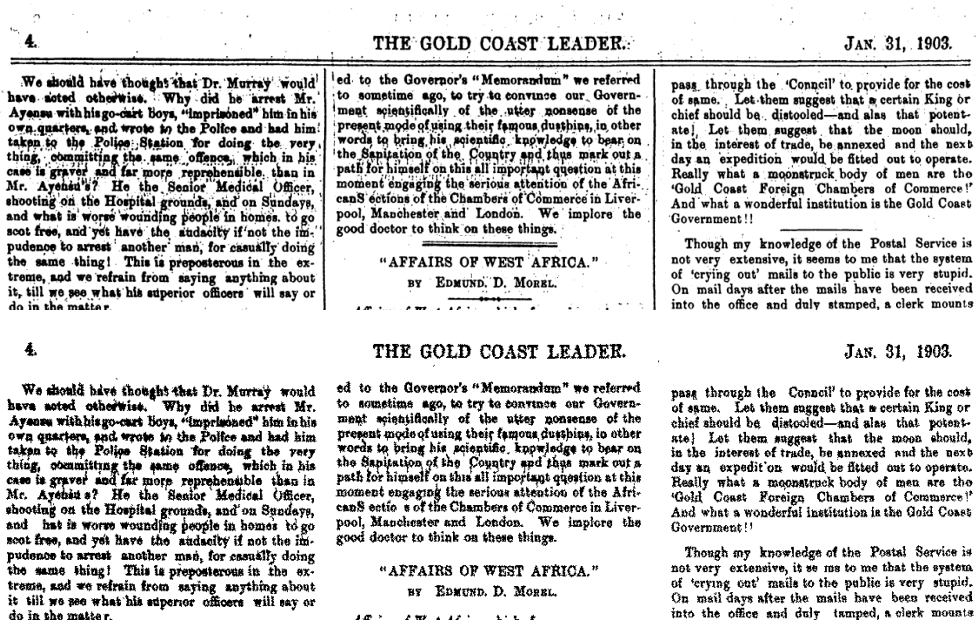
Nairobi, 1-3-03. B. E.

SELF SUPPORT IN NGONILAND.

In the earlier days of the Mission the

time, and all cast give of this coin minutely. Given a commanding personality in the teacher, or an influential, or interested chief, there is no limit to the service of this type that can be got from the people. Schools are now entirely built by the people; we have more than seventy of them. Most of these are built of bricks and slates, are plastered and whitewashed, and are situated in a rough fashion. But the total value of a good school of this type is not more than £3. Recently, however, brick schools are being erected by the people. Last year five schools and a church were built, but this year more than double that number are promised. These are valuable property, a continual lesson to the people, and are the pride and delight of the builders. In many another form this contribution of free labour expresses itself. Month by month hundreds of men, negroes carry little loads and letters to and from the large network of schools without pay. Roads are always being made or kept in repair, station grounds are swept, and school-houses are cleaned and mended every week without payment. At Hilda, we tried to engage four women. But no one would take up the work, it was too heavy, and we had to fall back on free labour. Now schools and church are regularly cleaned, without a grudge and without cost.

Figure 4.22: Image 11 original vs processed



THE GOLD COAST LEADER.

JAN. 31, 1903.

We should have thought that Dr. Murray would have noted otherwise. Why did he arrest Mr. Ayensu with his go-cart boys, "imprisoned" him in his own quarters, and wrote to the Police and had him taken to the Police Station for doing the very thing, committing the same offence, which in his case is grave and far more reprehensible than in Mr. Ayensu's? He the Senior Medical Officer, shooting on the Hospital grounds, and on Sundays, and has it worse wounding people in homes, to go scot free, and yet have the audacity if not the impudence to arrest another man, for casually doing the same thing! This is preposterous in the extreme, and we refrain from saying anything about it, till we see what his superior officers will say or do in the matter.

ed to the Governor's "Memorandum" we referred to sometime ago, to try to convince our Government scientifically of the utter nonsense of the present mode of using their famous dustbins, in other words to bring his scientific knowledge to bear on the Sanitation of the Country and thus mark out a path for himself on this all important question at this moment engaging the serious attention of the African's sections of the Chambers of Commerce in Liverpool, Manchester and London. We implore the good doctor to think on these things.

"AFFAIRS OF WEST AFRICA."

BY EDMUND D. MOREL.

pass through the 'Council' to provide for the cost of same. Let them suggest that a certain King or chief should be dethroned—and alas that potentate! Let them suggest that the moon should, in the interest of trade, be annexed and the next day an expedition would be fitted out to operate. Really what a moonstruck body of men are the 'Gold Coast Foreign Chambers of Commerce!' And what a wonderful institution is the Gold Coast Government!!

Though my knowledge of the Postal Service is not very extensive, it seems to me that the system of 'crying out' mails to the public is very stupid. On mail days after the mails have been received into the office and duly stamped, a clerk mounts

THE GOLD COAST LEADER.

JAN. 31, 1903.

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Though my knowledge of the Postal Service is not very extensive, it seems to me that the system of 'crying out' mails to the public is very stupid. On mail days after the mails have been received into the office and duly stamped, a clerk mounts

Figure 4.23: Image 2 original vs processed

4.4.3 Ink blackouts

This is easily the worse type of noise. Blackouts, in this paper, refer to the completely black marks found on the images. While it may be possible to remove minor flecks around the marks, removing the marks themselves offers no value at the OCR step. Any text underneath them is indistinguishable. There are other ways to solve the problem that these marks cause but not at the Image Processing level. It may be possible to tell them apart and classify them as blackouts due to their high pixel count. Pages containing blackouts could then be flagged for restoration processing.

The research analysis chapter walked through the test runs and the most prominent results. While the African Standard newspaper images produced viable results on the first try, the second paper did not. The Gold Coast Leader data brought up some problems with the images. The problematic broken characters were discovered. It was overcome by amending the test data. Future researchers using this technique can make sure to cater for broken characters in their training data sets. This problem also led to the realisation that processing the images from an issue rather than the images from an entire newspaper produces more consistent results. The layout readability problem was also discovered. Although this issue was not corrected in this research, it is possible to classify layout elements distinctly from noise and characters. There is more on this in chapter 5.1. The technique worked well for ink flecks but not ink bleed-through. Ink blackouts cannot be resolved at the Image Processing step but the technique could offer some assistance to the Text Analysis and Processing step. This is discussed further in Section 5.1.

5. Conclusions

This chapter contains ideas for future improvements. This includes classifier improvements, identifying layout regions and providing assisted sorting for elements which require human intervention to correct. A summary of the research concludes the dissertation.

5.1 Future Recommendations

This research was a first step to verify whether the use of MSER features with supervised machine learning could offer a viable noise removal mechanism for historical newspaper images. There are further steps which can be taken to expand on the addition of this technique to the DPP. This involves classifier improvement make use of the layout elements and the identification of serious noise damage to be marked for restoration.

5.1.1 Further classifier improvement

The Ensemble Bagged Trees classifier is a good choice for MSER data. One can continue to try different selections of testing data by adding or even removing training samples and taking more varied samples. The features used can also be changed (parameter tuning).

Boosting is the next advised step after bagged classifiers [35]. This requires arranging the data and possibly adding or removing features from the dataset. This cannot guarantee more accurate results. It may be that one will be able to improve on the processing time and memory usage.

One can also pre-cluster the data and use different training techniques on those clusters and possibly build up a more accurate ensemble.

5.1.2 Classification for layout elements

As was seen with image 6, the OCR tool read the text in the first two columns, not top to bottom but instead, left to right. This was likely due to some noise that remained in between the columns, as can be seen in figure 4.10. The column lines on the image are distinct shapes, it is possible to classify them as lines,

separate from noise and characters. It is also possible to distinguish lines as vertical and horizontal, as orientation is a property of an MSER.

Skew lines would not pose a problem. The classifier will learn discover an acceptable orientation range for vertical and horizontal lines, broken and complete.

A layout determination step can be added after the images MSERs were classified but before the noise is removed. At this point, the layout elements could be used to label or cut the image into separate, distinct sections, see figure 5.1. The blue rectangles indicate a complete section of text. The pink indicates layout elements.



Figure 5.1: Content elements and Line elements in image 6

5.1.3 Identify elements for restoration

Some parts of the image are not possible to recover at the Image Processing step. Any text covered by solid black, and unreadable by people, is unreadable by an OCR tool. There are restoration techniques but they are found in the next pipeline step – Text Analysis and Processing. It is possible to use Natural Language techniques to predict what text may lie beneath a ‘blackout’ mark [36]. Consider the autocomplete and auto-predict functions available on smartphones.

It may be possible then to recover some lost text, but finding these elements in a large database of images is daunting for a human. Blackout elements are likely distinguishable, like the lines, noise and characters are. For one, they have very high pixel counts.

Images 1 and 4 (see figures B1 and B4) contain examples of blackout elements. The blackout elements, like all MSERs are likely to have certain properties which distinguish them. For instance, the MSER of each of these these blackouts have some of the highest pixel counts out of all the MSERs generated for these images. Figures 5.2 and 5.3 indicate the blackout elements from images 1 and 4 respectively. If the classifiers can label these elements, they can be sifted from the image database by the computer rather than a human. Further restoration processing can be applied to the page or text section which contains the blackout element.

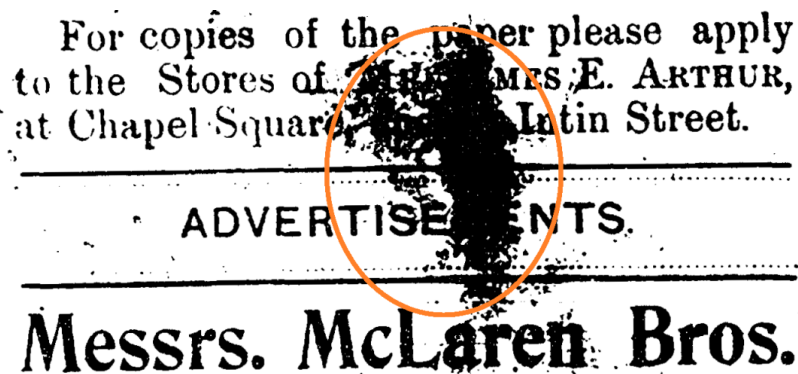


Figure 5.2: Blackout example from image 1 – 91182 pixels

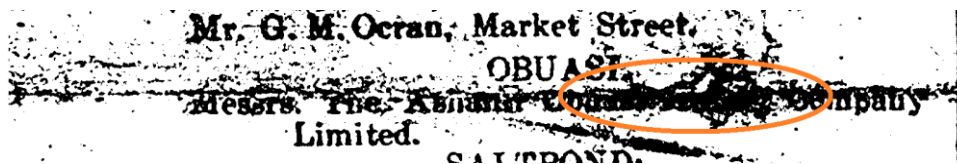


Figure 5.3: Blackout example from image 4 – 33050 pixels

The MSER and machine learning classifier offer a range of future possibilities which not only benefit the OCR processing stage but the Text Analysis and Processing stage as well.

5.2 Summary Conclusions

The purpose of the study was to evaluate the use of MSER and machine learning classifiers in removing image noise in order to produce better quality OCR text. Overall, the technique uncovered the noise type for which the technique works, at which level of document (full newspaper, publication issue or page) to process the images, important types of elements to be included in the training data as well as possible improvement for even better outcomes (improving the machine learner through data and classifier tuning, identifying and making use of the layout elements and identifying sections that require human intervention in order for the content to be identified and restored if possible). The African Newspapers database was used as test data in this study.

Processing a large number of historical documents is a laborious task. It could involve manual correction of many pieces of text which did not OCR correctly because the image contained noise. Image noise can affect an OCR tool's ability to correctly interpret text from an image. It could also lead to work-arounds being required later in the Text Analysis and Processing stage of the DPP.

The Image Processing step of the pipeline is responsible for transforming the incoming images into images which will be readable by the next step - OCR.

Various noise appears in scanned historical document images, even after binerisation of the image. The technique worked well for removing ink splatter. It is possible to remove noise by sorting MSER elements into characters and noise.

The technique in this paper was designed to do the sorting and then remove the noise elements. The steps of the noise removal process are:

1. Generate MSER data from images.
2. Choose training data then train and improve the classifier.
3. Classifier determines noise and character elements.
4. Removing noise elements to create new images.
5. Generate OCR text from the new images.

The experiments validated whether the mechanism of MSER data and classifiers would be a valuable addition to the DPP, in order to categorise noise elements and remove them. Less noise in an image means less bad OCR text output.

The classifier training requires manual intervention but once done, it can be placed into the Image Processing step of the DPP.

Although not the only classifier option, a Random Forest (or the Ensemble Bagged Trees classifier if using MATLAB[®]) is likely the best choice of classifier for MSER data. The classifier and its training data can be changed until an accuracy level, acceptable to the researcher, is achieved.

Having a variety of examples is important. This research chose to use real life examples as training data. This decision was made due to noise being inconsistent. It also keeps the data set real and non-synthetic. This proved useful in discovering more about the nature of the MSERs and the OCR tools interpretation of the image.

It was found that broken characters need to be catered for in the training set. With regards to layout interpretation, it could be worth looking into using the layout elements of a page to overcome noise affecting the OCR's tool ability to read the column layout (common for newspapers).

The investigations showed that it is possible to engineer a semi-automatable DPP which includes image noise removal, for historical newspaper images from the African Newspapers database. The images from the database produced more consistent results when processing the dataset at the publication issue level, rather than at the newspaper level.

The investigation showed that the technique has promise as it allowed the OCR tool to produce improved output. The future recommendations show that the use of MSERs and classifiers can be of further use when processing newspaper articles.

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Appendix A

Table A1: Comparison of correct text against the OCR output

Test-Text	OCR of original image	OCR of processed image
Conveyance, Bombay	Conveyance, Bombay; I	Conveyance Bombay I
L. BESSON, Mombasa, Zanzibar and Kampala.	L. BESSON Mombasa, Zanzabar and Kampala	L BESSO Mombasa, Zanzabar and K mpala
L. BESSON, Limited, Durban.	L BESSON LIMited, Darban.	L BESSON, Limited Durban
L. BESSON & Co., Madagascar.	[L. BESSON 84 00., Madagascar	L BESSON & 00., Madagasc r.
Commission Agents, Import, Export, Norwegian Timber, Madagascar	Commisswn Agents, Impo--t. Export, Norwegian Timber, Madagascar	Commisswn Agents Impo-t. Export Nor eglan Timber Madagascar
Teak Wood, Iron Sheets, etc.	-- " Teak Wood. Iron Sheets, etc. -	Teak Wood Ir n heats etc
A R E	I F	E
BUYERS of any kind of produce in large or small quantities and will be glad to accept from Settlers any produce consignment directed to South	----ARE--- ,1 BUYERS of énj kind (If pmduce, 111 large or small quantities and will be glad to accept from Settlers any produce	JOY PS of an; kmd of p1 duce 1n large or small quantitles and vs 11 be glad to accept from Settlers any produ e conmgmnenb directed to South Aime 1n connectlon x xth

<p>Africa, in connection with their Durban Branch.</p> <p>For further particulars apply to</p> <p>L. BESSON, MOMBASA.</p> <p>THE NORFOLK HOTEL, NAIROBI.</p> <p>The only stone built and tile roofed Hotel (With every accommodation) in East Africa.</p> <p>Will be open towards the end of the year</p> <p>Forty Lofty Bedrooms.</p>	<p>consignment directed to South</p> <p>Africa, in connection with their Durban Branch. .</p> <p>'5 ~:~. F07 further pmtwulms applyL to</p> <p>NAIROBI</p> <p>The only 310113 1111111 and tile roofed Hotel (With every acuommodatlon) In East "Africa</p> <p>Will be open towards the end of the year.</p> <p>1 ' V 1 u ., ... 1 . , '1 ... ' . 1 "1</p> <p>I-n — -' -u .4 7A (:09 m H? "A ?x :0 ?'</p>	<p>their Durban Branch</p> <p>F07 fart} 67 pmtwulms apply to</p> <p>L BESSON, MOMMSA.</p> <p>THE NORFOLK HOTEL, NAIROBI.</p> <p>The only stone bmlt and t?e roofed Hotel (Wlth every eeeommod tlon.) 111 East Af'nca</p> <p>Will be open towards the end of the year</p> <p>F op'ty Lofty Bed moms</p> <p>{Am—Beam Wmtmg</p>
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<p>Ladies, Reading, Waiting, Dining, Smoking, Luggage and Billiard Rooms.</p> <p>CHARGES MODERATE</p> <p>R. AYLMER WINEARLS, Proprietor.</p> <p>P.H CLARKE,</p> <p>OFFICIAL BROKER AND COMMISSION AGENT, PORT FLORENCE.</p> <p>CATTLE.</p> <p>KAVIRONDO AND USOGA CATTLE BOUGHT ON COMMISSION</p> <p>Arrangements made for the transpor down.</p> <p>H. E. WRIGHT,</p> <p>Farrier and General Smith.</p>	<p>F arty Lofty Bed'rdoms. ,</p> <p>I BeadinbbWaltmg, Dmmg, - Smolngng, Luggage -</p> <p>4- . ' and B?ard Rooms. .</p> <p>4. ... ' A n. ' " .d</p> <p>CHARGES MODERATE</p> <p>R AYLMER WINEARLS Propmetom.</p> <p>I</p> <p>P H CLARKE IH. E. WRIGHT</p> <p>' ' 3mm 810K511 AND c'omllssmll AGENT I Farrier a'nd General Sniith.</p> <p>PORT FLORENCE. 9 , Victoria Street, NAIROBI.</p>	<p>Dmmg Smelngng, Luggage and B?herd Rooms</p> <p>CHARGES MODERATE</p> <p>R. AYLMER WINEARLS, Proprietor</p> <p>P. CLARKE, ih. E. WRIGHT,</p> <p>emcm 8 0m AND comes IO AGENT, ' Farrier aha Genera, 5mm,</p> <p>P0 RT FL RENCE Victoma Street NAIROBI</p> <p>CATTLE 1 cameras AND CYCLES nepamen</p> <p>BOUGHT ON COM IIS IO'I</p>
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<p>Victoria Street, NAIROBI.</p> <p>CARRIAGES AND CYCLES REPAIRED.</p> <p>English Furniture built to order.</p> <p>Estimates Free.</p> <p>CHARGES MODERATE.</p>	<p>f.</p> <p>CATTLE</p> <p>f 11' 1.2.,</p> <p>'M</p> <p>"A".</p> <p>CABBIAGBB AND CYCLBB REPAIRBD</p> <p>BOUGHT ON COMMISSION</p> <p>Ammgemcnts made for the. tranSpor? i</p> <p>Estlmates Free. ,</p> <p>1 _ d9»?1 ' ' 5 f</p>	<p>Am gemcnts m d for t 8</p> <p>Sn ' Estimates Free</p> <p>dam CHARGEe</p> <p>MODERATE</p> <p>KAVI ONDO AND USUGA C "-17% Eng</p> <p>1sh Furmture built to order</p>
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Table A2: Comparison of correct text against the OCR output

Img	OCR from original images	OCR from procssed images
1	<p>' _ ---'_-. \--. -v_-~ ---'rv--\"v— -v-</p> <p>lieati'on Should he addressed to the Editor.</p> <p>business Communications and remit-</p> <p>tanees either in Cheques or Post Office</p> <p>Orders should be sent to ,the Manager,</p> <p>."Gold Coast Leader" Office, Saltpond</p> <p>Road, Cape Coast. west Africa.</p> <p>For copies of the": "1131' please apply</p> <p>- . 1 "ESE. ARTHUR,</p> <p>"tin Street.</p> <p>MeSSrS. McLaren Bros.</p> <p>and Company</p> <p>at Manchestm and the Gold COW prepared</p> <p>to let their \\ ell and completef :, 'ed</p> <p>Rooms</p> <p>_(11101ler11 Style) at their Housed"</p> <p>Sekondi, —;</p> <p>3</p>	<p>lie-1ti0n should he addressed to the Editor.</p> <p>Business Communications and want-</p> <p>tam-es either in Cheques or Post Office</p> <p>Orders should be sent to the Manager,</p> <p>"Gold Coast Leader" Office, Saltpond</p> <p>Road, Cape Coast. West Ahica.</p> <p>For copies of the .081in please apply</p> <p>to the Stores 01. " 28:12. ARTHUR,</p> <p>_at Chapel Squar' ' tin Street.</p> <p>Messrs. McLaren Bros.</p> <p>and Company</p> <p>at Manchestei and the Gold COW prepared</p> <p>to let their \\ ell and completef ed Rooms</p> <p>(modern style) 1t their Houses Sekondi,</p> <p>-take</p> <p>Mr. Bernard Hicks</p> <p>79 Mark Lane London, has the pleasure to</p> <p>inform Clients 011 the Coast that he has</p> <p>been</p> <p>able to make arrangements "ith Messrs.</p> <p>Mathews Wrightson & Co.</p> <p>of 3'2 Great bt. Helens, London E. C, a Firm</p> <p>of acknowledged standing and reputation,</p> <p>to</p> <p>some years past.</p> <p>This Firm having a much larger Capital, and</p> <p>a very efficient staff of assistants, available</p> <p>for</p> <p>the working of their business, Customers</p> <p>will</p> <p>undoubtedly reap greater adxantanes than</p>

<p>Mr. Bernard Hicks _</p> <p>79 Mark Lane, London, has the pleasure "to inform Clients 011 the Coast'that he has been able to make arrangements with 1111.1...</p> <p>Mathews INrightson & Co.</p> <p>of 3'2 Great St. l'UICIS, London E. C., '11 l'ii'm of acknowledged standing and reputation, to</p> <p>-take over the blISillCSfi carried on by him for</p> <p>some yca1s past.</p> <p>This Firm havintr a much lartre Capital, and a very efflieient St: 1ti' ol 11SS1S1111tS available for the working of their busi11eSs,Guston1ers 'will</p> <p>undoubtedly reap great-er 111lx11nt1weS than he' has hitherto been able to otter, especially as '</p> <p>legards the prompt shipmentS of Goods ordered.</p> <p>As the new bu'SineSS will 1c111ain nianagement any indents Clie 1111'; may be pl1 ased to fax 0111 "it firm will 11Shc1'etol'ore r1cei1e</p> <p>1.3.. '1—1116 1.....1 "1\~u1-l'\-\.' H04... .0. ...</p> <p>under his ,</p> <p>_ endow</p>	<p>he has hitherto been able to otiei especially as tetrards the prompt shipments of Goods ordered.</p> <p>As the new business "ill 1e111ain under his management any indents Clients may be pleased</p> <p>to favour the firm will as heretofore receive l' ... l n "— . l u A. 0:</p> <p>over the business carried on by him for . J'</p> <p>The inhabitants of the Market place and i1< vieimty are renmving in View of the Victoria Park whu-h will soon be in course of erection. The pttty is the inadequate sums which are being paid to house owners, not sullieient, all round, for the purchase of ground much more for building.</p> <p>There was a hall at the, Con1n1is~1a1iat House on the night of the lltlth ult. which from all appearance, came off nicely.</p> <p>\Ve regret to report. the death of .l. P. l». . Orleans which took place at Accra on the Jilst, ult.</p> <p>A Correspmlgn; writing from Ohuasie. reports a serious conflagration there that entailed heavy losses. besides laying deSolate many buildings</p> <p>Another correspondent writes from Sekondi,</p>
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who after remarking on an unfulfilled promise of the Sekondi Lighterage and Hotel Company to endow the hotel there with a Manageress, complains bitterly over the Her-grown state of the

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<p>2 ' . 4c. - ' . O . .ws 111011111 11m 111011111111111: Dr. Murrs'y won-161' hove noted othdfli's't'. Why did he irrest Mr.</p> <p>- Ayensu withhis go-o's's'rt Boys, "impridned" him in hit oqngn'srm "do flats to the Police end had him' tsko 11'. to tho Poliogg Station for doing the very. thing,-cbmm1tt1 ths.oemeflof'lenog,1_phgch 1n his en's 2:319:14": opp reerhensihle than in Mr. 11 5'7 He the senior Medidnl" Officer, shooting-191! the Hospitnl rounds, (ad on Sundays, and whet is worse wou'n'dggp {1301116 in Mates. 130 soot 1m, sn'd ydt lisve theg suddit'y if'not the hi." pudenpe to arrest another me; far cesnh'lly' doing the some thing! This' is preposterous in the ex- trams, and we refrain frbm saying anything about</p> <p>it till 11o see whet his superior officers will say or do in the motto r-</p> <p>J</p> <p>THE" GoLD ; COASTr'liE'A'DEkt</p> <p>'ed to the Governor's " Memorandum we referred</p> <p>to sometime ego, to try to consume our Govern- .</p> <p>imeflt soieh'sitionlly of the. NM! .nonsense of the Wnt mode of u'sing their {omens</p>	<p>4 ' . V s</p> <p>_ ' THE GOLD COAST'LEADER:</p> <p>We should hivo'etohshsiinem Math? 'woulci' 'ed' to the Governor's "Mommies!" we referred</p> <p>'hevo acted othehise'</p> <p>aspen 6.!» 30'l993fit5fi00. m- doing</p> <p>case is" " veil</p> <p>(or. morp _reprehensible:, than in</p> <p>Mr. Aye . '957 He the "Senior. 'Mediéal 'Qfiieer, ' shooting on the Hospital grouiids,'a:nd' on Sundeysk "8</p> <p>and what is Worse" "fiodnd</p> <p>. it'e'ofile' in home}. t6 go soot free, and'ydt have the audacity if'not the i</p> <p>pudenoe 'to arrest' another ms, for casut'lly' domg' '</p> <p>the same thing! This a' preposterous in the ex trams, and we refrain frbm saying anything about</p> <p>it, till ale/see yhat his superior oifieers' will say or do in the mute r- ' -</p> <p>' Why' did to "arrest Mr ' Ayonsu withhis go-o'n'rt Boys, 'Qmprinbnd' him in his O'Rtlm 99d. mto tn the Police end'had him! the very.</p>
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<p>dugthingq, 111 other</p> <p>words to bring his hypothetical knowledg to bear on _ Qonqtry 79d thos msrk 0111.11. '1 t q11'estion at this , moment engaging the serious attention of the Afri-,_', c3118 ec'tio'ns "of the Cbsm'beré of Commerce 111 Lier- ' - We implore the ':</p> <p>'theSsoia a't10n (th e</p> <p>path for imsei on this all 1mpo1-</p> <p>pool, Manchester and LondOn good doctor to think on these things</p> <p>"AFFAIRS OF WEST AFRICA. " . 1111 Ebntmn'. D M01131.</p> <p>. of some ' chief should be distooled—snd slits that potent- . ate! 1 in the interest of trade, be annexed and the next j day an expedition would be fitted out to Operate</p> <p>J11; 31,1903.</p> <p>pas; through the 'Conncil' to provide for the cost Let- them suggest that a certain King 61'</p> <p>Let them suggest that the moon should, Really what 11. moontrpck body of men are the '</p> <p>'Gold Coast Foreign Chambers of Commerce."</p>	<p>"lies. - .cbtuqutm thwakfima. which in his</p> <p>ll a .</p> <p>~to sometime ago,' to try to eonvmce our Govern- ,</p> <p>lmeut. scientifically of theatter nonsense of the :pmorit mode efeqinsthou finenedmhieaie other</p> <p>,words tq brin ,his scientifie,'kn\$w ed 9 to beat-:01: _ 'the ,Ssfii duo-5?: thea pquetry 3,251.} thugs mark out a .</p> <p>'7</p> <p>path'ihrtinsel on this'all' important question at this</p> <p>moment'dngsg'i'ug'the serious attention of'the'Afri ,</p> <p>canS'eidtions of the Chambersrof'Cdmmer'ce in Liver pool, Manchester and London. good doctor to think on these things.</p> <p>"AFFAIRS OF WEST :AFRICA. " . a? EDMUND'. Dt'Monn'L.</p> <p>Am '- [mnlNi' L'_L I,, .1</p> <p>we ' implore the '</p> <p>JAN. 31, 1903.</p> <p>pass, through the 'Conncii' to. provide for the cost of same. : Let them suggest theta, certain King 61'</p>
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<p>4 'LADV LR'TISING SCALE. ,3 'Advertwement should be sent to the MANAGER qt loaitit three days before the day of publication and to be accompanied by remittance. '</p> <p>__ Twelve lines and under .5/-- ~, ' , Additional line -- .. '-¥ "/6 ' - Birth, Death or Marriage ., 2,36</p> <p>__,_ A." __, {Special arrangements can 1% mare for advertise- meat! for longer periods. . *</p> <p>Aikmiimcatwm intended for. publication 5 mild warmed to the. EDITOR. '</p> <p>Busineés communications and remittances either in Cheques or Post Office _()rders 811911111. be sent to theMonmz. . -_. é (3</p> <p>For oopiee of the paper please apply to 4 Mr. 'Géo- Jeffery, opposite the New Market, Eimiu; Bleed, 54> . . 9A ., '2''' AXIM: '1 fleas" "new? &~ Addaquayl, at the back of</p> <p>_fit.: Jamesbhurch < . .</p> <p>l 2'''-</p> <p>»__4</p> <p>~v~~-e szmNDEE. AB" 3 ; . mm 85118111 .lghnsen. : 'An:Ç~.f TARK"H1.r 2r? ' ' l Mom Miifers Limited. r... ,5}</p> <p>Octal), 'Market Streeh</p>	<p>x"...</p> <p>'m -</p> <p>W'C' t, hr" 3 .(u- p \ W-MWM .</p> <p>ADVL LRTISING SCALE.</p> <p>Advertwement should be sent to the MANAGER qt loaitit three days before the day of publication and to be accompanied by remittance.</p> <p>Twelve lines and under . . 5/- Additional hue —/6 Birth Death or Marnago 2,6</p> <p>Special arrangements can E mad} for advertise- meats for longer periods.</p> <p>Afiwmfiumcations intended tor publication 5 (mid warmed to tho EDITOR.</p> <p>Business wmmunications and remittances either in Cheques at Post Office Orders should be sent to theMANmER ' (fl</p> <p>For wines of the paper please aqply to 4 Mr Geo Jeffery, opposite the New Market</p> <p>Eimiu- Road e p" '- AXIM: ' fleeing; "Manet: & Addaquay at the back of \$.81: Sadnessbhurch . W ' ~'i~ * BECCONDEE , 3 man, Emmi lghnsén. : TAR-KW A. " ' 2 r ' Mom": Mains Hunted ,. 3 r-N' "1</p> <p>BROOM'A'SSIE. 4.. g , Mr, G" M Octal) Market Street. 1'</p>
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VOL. XII.
" No. 625.

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THE GOLD COAST LEADER

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<p>l"</p> <p>n l.</p> <p>Fem {V 15]— pet Teena. M V 18/- LT'e'm'e notoe met be given in :v'ritinc by Fume er</p> <p>Guardian: before the withdnwel cl eny pupil. or e Tenn' e feet" will be chewed in lieu of notice.</p> <p>9' 0 ee</p> <p>, Price 'Sd' ' Including poeage 4d _</p> <p>_.v— _</p> <p>Bank of British Wegt Africa Liti.</p> <p>MARLISHED 1894.-</p> <p>Beaker-e to the Govenmenie of the Poioniee of the Gembie, Sierra Leone. the Gold Coeet end Nimrie. to ' the Imperial Government in Siem Leone</p> <p>HEAD OFFICE 17 & latD Leadenheli 8t. Imdon n. c. Teleemphiekdebie eddreeez— "Amglo" London: _</p> <p>"n "Minna!</p> <p>, Liv mu Wu 03 .013: 14.0 "tie Street. _ . . . ;le1e'graphie»</p> <p>WBURG OFFICE: Nee 1. __ _ Q Telegraphic & Cebie Addieeb"3nilion". Senibnig.</p>	<p>Including postage 4d</p> <p>Bank of érltIsh West'Afraca Li; "MABLISHED A894.</p> <p>Beaker-I'm the Governmenie of the Poioniee of the</p> <p>Gambia, Sierra Leone. the Gold Coo» and Nigeria. to the Imperial Governmeni in Siem Leone.</p> <p>HEAD OFFICE 17 & 18. Leadenfinu 8: London E. c Telegraphic d. Gable eddreeez—"Arrpglo" London</p> <p>~ LI vamL omcgg H: Castle Street.</p> <p>W&'GMNWW WBURG OFFICE: Neal. ' '</p> <p>a</p> <p>Q Telegrapiiie & Cable Wreck—"Bullion" Heinbnrg ' NEW YORK AGENCY 4 WellStreet. New York U.S.A</p> <p>Subscribed Capital £1 0%.!)00 Called—up Capim} . £4000") Reserve £176 750.</p> <p>manure. '</p> <p>The RT Hon Visoomrr Emma. 9.0.3.. 0.0.1: o 0.9 anemone E80. 0. HARNBON WiLmus, Esq</p> <p>Wu F Moons. E80. 81:: 0mm Pmnurs. x.c.u.o 0 113mm. m. J P Gnonon Emmi. E80.</p>
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<p>7 "ms—W“ ._.w_.m. :. D ‘.....-..... , .1..—.._.,;.....-.._..- ,...(- -----~_”-</p> <p>Established in 1880 i THE. ENGLAgH STORES '!' Ac</p> <p>~ J’blegwphwfidm““JUNWR” GENERAL IMPORT AND EXPORT MERCHANTS</p> <p>i Forwardmg 85 Commissmn Agents, -'</p> <p>L 5R}. & ' , _ 25, Drum DE DADA. STREET, . - . ' 9’</p> <p>I, ‘ 21f Vasco da. Gama Sfréét, 5’ ” (OPPOSITE TEE MWBASA CLUB) - j _ MOMEASA. ‘ ” ié , MOMBASA NAIRGBI “\$3185 ZANZIBARE . AH English Goods retaiiea at English Prices. . AND</p> <p>GERMAN. EASRAFRICA</p> <p>I Tailors and Shoe. Manufacturers</p> <p>I LADIES AND GENTEDUDN’S OUTFITTERS. ‘</p> <p>G en era1 Merchants, “Buyeré oArlvorN. Rubber Gumwfilground nuts, Elms Gotth and</p> <p>i</p> <p>4’7</p> <p>other produce, 850., In large 02.5mm quantitles</p>	<p>Estabushedon 1880, THE ENGngfi STORES, - woman” GENERAL IMPORI AND EXPORT MERCHANTS Forwarding 85 Commissmn Agents, 25, YASCO DE GAME. STREET, ' OPPOSITE TEE Momgxs’x CLUB,)</p> <p>21, Vasco da. Gama Street, MOMBASA . MOMBfifiA. ”meow, awn-Boa zAsZAR AH English Goods retaiiefi at English Prices. LADIES AND GENTE‘EEXEN’S OUTFITTERS</p> <p>GERMAN EASRAFRICA,</p> <p>Tailors and 81109 Manufacturers, Bu mg Genera Merchants, yore. O’Zrivgllly’rfiubger Ggm, Wag? go round nuts, Flfifes Cotton and Commission Agents. O a pro 1106, 0 image oxosmau quantities</p> <p>‘ The Antwerp East Afrioan Traa’ing 00., Ltd.</p> <p>Wafimgs of: Wmes, Spirits, Ales, Shouts, Tobacco of various Linda, Craven</p> <p>Mixtme, 'Toilet Requisites, Patent Medicines, , \ J H QRAKE,</p> <p>Crobkery, Qutlery, Lnomelled ware, Station ‘ }</p> <p>cry, Gficiefi: 33nd Tennis 1e uisites, Bic cles, J Chief A gent. , a .</p> <p>amand by every ma Fresh ro- V'fimz . ' g «r». T?“ 11 WW“ “EYE? YT) A</p>
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<p>8 V</p> <p>:1. ,r'igtit'h effect from Is-t July.,' 3:" Navy'tim'e tables'withfihll partir; _</p> <p>'l l</p> <p>,Z'Ss'iUBDAY,'ciUNn 25, 19M.</p> <p>"#3151; mmiéam em lemme. s</p> <p>{fugeandaf RailWayn 2</p> <p>' rims; TABLE _ ALTERATI'Ong '</p> <p>--- _---</p> <p>Puhlicwlnol'tice- is hereby given s*:-'fthat;:,tha't'the'l present train and</p> <p>: 'ete'amer 'timings will [be altered.</p> <p>fg'oule'ré will shortly be issued'. By Order,- 'l ' ' A. E. CRUICKSHAN K; > Traffic Manager. Traffic Manager's Office, . ' . ' a '.J'1."a's1'."fl?i',mh Jung, 19041: "</p> <p>.. l</p> <p>5an</p> <p>lofif'svisquaciron. J ~-</p> <p>"theiilttiimlllt'vv*!+'irtEttt.l</p> <p>. n . ' ' l l',VK. s . Renter. //</p>	<p>Shannon, JUNE 25, 1904.</p> <p>Uganda Railway.</p> <p>NOTICE. TIME TABLE ALTERATIONS.</p> <p>Public notice is hereby given "that that the present train and , steamer timings will be altered with effect from 1st July New time tables with full parti- culars will shortly be issued. ' By Order, 'A E. CRUICKSHAN K,</p> <p>Traffic Manager</p> <p>Traffic Manager's Office, Nairobi, 11th June, 1904.</p> <p>«THEE AFRIEAN' STANDAIRD.</p> <p>theta «in the rarest. .</p> <p>. Renter.</p> <p>LoaiDON, J UNE 18. A despatch ~ from General Sheekeberg timed early morning of the 16th1descnbes the battle of Wafengkan and says that a superior force of the Japanese on the 15th turned his right flank and com- pelled him to retreat northwards by three roads, his losses were heavy, the Japanese fire wiped- out two batteries and'13 out of 16 guns were destroyed and abandoned, .</p> <p>é LOVDON, J ONE 18. General Bobrikofl' is dead.</p> <p>LONDON, J UNE 18. Admiral Kaminura's fleet started on the 15th 113 pursuit of Skryd</p>
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<p>\ . .</p> <p>7 ' 'LMW," JUNE '18.:-'—;A' 's [desp'atch-'í'írom General She'ékeh'erg timed early ' nutmeg: of the 16th! describes ,«thegbattle; of 5 ;Wa.fengka_n and says that a superiop, force of the J apanes'e on the .15th turnstihis right flank and com- pelled him a to retreatprthwerds by three</p> <p>LONDON, ,JUNE .18. —General;: Bobrikoff f is dead, ' . r- :.. , ' . - '</p> <p>L'O'NDON, ' JUNE- 18- f5'llfil¥5l.iKaminml3"l3 fleet-started on the: 15% '53 putsult'ifOf lgkmd“</p> <p>7-</p> <p>. 4.:LONDON, J UNE 18.—It is undesstood thait</p> <p>' ,_:there- are marked dissensions in the Cabinet</p> <p>x</p> <p>roads, his: losses were "heavy," the "Japanese . ' fire wiped- out two~hattiíiesandf13 out'of' :16 . guns weregestroyetiiaid""abandoned? ' . "1:3; flattery.</p> <p>VJ l 5' it ['3 [l</p> <p>' 's'j'eggyttofimos; .</p>	<p>lofi's squadron.</p> <p>LONDON, JUNE 18 It is understood that there are marked dissensions in the Cabinet</p> <p>STRAY regimes.</p> <p>r Nairobi, June 22.</p> <p>ç l' " 'i §h§ iincideht connected with the abrupt ie gnation of Sir'Charles Eliot as Commis sionerls one which discloses the extent of oxer control exercised hy'the Foreign Office authorities upon' their Agents abroad. In this case the attitude of the Commissioner is highly praiseworthy. Land trusts may help</p> <p>to swell that otthbee who re concerned in the monogflfigfgbut are detrimmental both to</p> <p>the interests of the country and to the public at, angle. '</p> <p>Sports are shortly to itake place at the Race Course, promoted by non members 0: the Turf Club. The proceeds of same are to be</p> <p>applied to some n noficial fund 'It is a move in thélright Git~ ctip'n.</p> <p>Railway subordinates are enjoined to have thegrassen-their-cempeends—out Failureto</p> <p>comply with the above order will entail the l, k an" "a. '1 L. an '0 '1</p> <p>The Latesthebles. Renter.</p> <p>l l'f '3 i a</p>
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THE A'FR'ICA'N' svfIBARD.

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<p>-Major Austin, who had worked with him long before Uganda (lays, is one of the niosti loyal, and at the same time Jn'iost convincing. The Souda'nese who mputinied weretth'eqn evil legacyleft to U 'ga'nda bylSir Frbdbriç'ljdgard. They were the dereliets of' the forces of Emin Pasha and Sir Henry'Stanley, and'in the main not veiy good. Soudanese, thougluancgrtain preportionwere excellent. They'had served a great 'p'u' os'epwhengfirst. introduced into Uganda an</p> <p>from England in 1897 they wereripe for mutiny. The immediate cause was undoubt- edly overwork. The King Mavanga had re- cently fled from the capital and raised a revolt. There had been a great deal of lighting and</p> <p>elapsed before he 7</p> <p>scattered in garrisons over a» wide country. ; When Macdonald arrived that they slug: di "bfhiflJHG</p> <p>ways .unique' The reader-scan follow with; easef'thetWhole ofsa ngfithh comghitmd se'il; ries of matches aii'glnhg ts. sis we knoviin,' the rebels ultimately evacuated Lubw ' [dud fléd across the Nile, whither they infidel</p>	<p>There had been a great deal of lighting and ways unique' The reader-a can follow with' ease the whole of a s</p> <p>h com" 1 ted sen ries of marches aridnhg Ms is rigtilgilmownf'</p> <p>the rebels ultimately evacuated Lubw ' ' fire. season. fléd across the Nile, whither they hafifi ii: heifer";</p> <p>5</p> <p>ai lf what £33qu- iiii' é'lvngs e roug t</p> <p>the Sobat region R Maedonald would never have got e oods and swamps</p> <p>or's story of the'doings of his own pursued, Macdonald had to undertake at the column are of course, absolutel authentic</p> <p>same timed]; mgfipregeion'g') [the revolti g and addiiljmrjch to OB ; pane dge of e</p> <p>Mahomme H1 ves under rranga,and' e</p> <p>l</p> <p>corintry traverse an</p> <p>its inhabitants,</p> <p>hadia hard job of it in the seven months that especially the magnificent but unreliable</p> <p>elapsed before he r338</p> <p>hrs expedition agai tart for the north.</p>
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<p>bi, pursued, Macdonald had to undertake the same 'tim Sure' no t er r''v" i Sdpaifimfip 58\$in héxaiiigafand'ig'</p> <p>Mahomme ' Ves un hadia liardxjob of it in the seven months that is latopiece together his expeditionagai' "hm I , . Theability displayed by the leaders of the</p> <p>Soudanese was .nidis utablei , ' For ~.instanc,.6.-</p> <p>. .tliy.evacuatéif'>hiubi'3 ' 'Wiv'itli'idslifimaseias</p> <p>if there had been no 'investing force within miles; "Their'int'e'ntierr'was'known'heforehan d,' as Major Austin shows :,— "</p> <p>*' A be r r odd 't' "l- w'iitineinsigwere medit "gag amigo ' era out by waited, utilisih ~thc~ 1 "Hob-this urp'ese to cross ii?) a promontory about two miles across the lake from their present fortgatLubwa's. The.,Sou- 'danese, he said, still SPOS\$C\$SEflifmm 20'to [30 rounds of ammunition per. man, 'and had</p> <p>strongly loopholed 'their 'fqrt,f.whichthey re-'</p> <p>garded as impregnable. Olieitiiérbf'lbophol'csi was right down on the ground on a level with the top'on the ditch, the men lying in regular excavated pi'ts</p>	<p>The ability display ed by the leaders of the Soudancse was nrdis utable. For instance, they evacuated Eubi'v ' With 'asYn'hrdlfease its if there had been no investing force within miles. Their intention wa'S'knOwn beforehand as Major Austin shows:</p> <p>" A he r r old 1: utineers were rredit "gag amigo ' (an? out by italics. utrshih the r "Hos tliis urp'ese to crosg ti?) a promontory about two miles across the lake from their present fort at Lubwa's. The Son danese, he said, still possessedgfrOln 20 to 30 rounds of ammunition per man, and had strongly loopholed 'their fart, which they re garded as impregnable. Ohe'tierpf 'loopholes was right down on the ground on a level with the top on the ditch, the men lying in regular encar ated pipsf 1sin ,wlrrch it was impossible</p> <p>(.</p> <p>that they sh u l eihrt' 'He launhiugly add ed 'You ileiizjhebitblh to Mat, us in the open. but don't make an attempt to storm the</p> <p>l1 ' late piece together T1 kana, who gave him much trouble on the</p> <p>r</p> <p>w y back. One finds that the actual hard ships suffered by the Austin column before their mrial at Rudolf do not sad so dis tressingyilin the anthblslretloséct as they</p>
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&c., Double and Single Bedsteads,
Hair and Wool Mattresses, &c., Guns and
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the pioneer squatter, anti~ Lot the first selector, had a serious quarrel, probably about grazing

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SAIURBAY, JAVUAM 7, 1905.

Omm 3. The market steady. In sales this week there were 60 bags of Nyassaland offered and sold. Fair bright red and yellowish at 48, dark red at 38, and mixed yellow and red, home perished at 37/-, 240 bags of East Coast; African were bought in at 45/ for fair red, and at 37 for mixed fellow part perished. 53 bales of Zanzibar offered and bought in at 50 -.

Capsicums were only represented by 1 halibut of Natal which, however, did not change hands.

Gum Ammi. In sales yesterday 210 pkgs. of Zanzibar was offered and 52 sold. Sorts strong, fair, bold, pale and amber, with part small £9 10 to £9/12 6, ditto part rough and red £8 10, mostly weak fair hold with part small £5 5, weak medium and small to fair clean £5 per cwt., Bean and pea strong

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 20/- tos25/., low ciark andv'wooiy pert -
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 nary 4} to 10/-, Siftings fair,.pale'clean
 40/-,
 dull to. _specky 80/- to 35/-, inferior-19m

pale
 £7 per cwt., piokin 5 clean reddish with
 part
 medium hold 35 -, air clean small to
 medium
 20 to 25 , low dark and woody part prdi
 nary 4} to 10 -, Siftings fair pale clean 40 -,
 dull to specky 30 to 35 -, inferior 19 6 to
 25 per cwt. ' Copal character clean pale
 With little reddish 75 per owt.

Hemp. A'rican still continues conspicuous
 by Its absence consequently prices are
 nomi
 nal In sales this week there were 22 bales
 of Mauritius offered, and 8 sold at £81 5
 per
 ton subject. We quote Mauritius on the
 spot good white at 33 ,fair 30 - and
 common
 27 per cwt. '

<p>13 ; Pertinent to our last week's- culling from Trill/'1 touching a certain correspondence-from a Mr. Anioiuh of Frankfort Chamhm's (to (to, Cape Coast, >1 we auain cu'll' the followimr from tin-1 samc p: 1pc r 01"“ tlw. lth l)c1 ember last, our commentton 11hi'cl1 "“11 i ' once more r11se1'1e; — ,</p> <p>“It soon 1113 that the letter from a Mr.- \111piah to a london Tradvsman recently publislwd 1n 'l'rulh is a. 1111' imple of a 1'111'1' common class (bf-1communications from that part of tho 11(11'ld. r1111 liusi'ness liniuins of the nigger trader are evidently somewhat. chaotic. ()1111 of them writes to :i' coxrcSponde-nc whom he addresses-113 11 “book seller and news Agent. ” . ‘ » -</p> <p>“Your name 1ivas highly recommended to me by a" certain f1icnd of 111inc"1ha't you are the lwst 11'i1ol manufacturing, so that- I want your _b'umph-:1, 0111111111111111»; {0 11'0. ' " 1 '</p> <p>“In another case two ingenuous 1miths wrote that: . they had heard some 111111-11 11111.11 11'1r1- wanted to learn the hook trflilt' and proposed to come 4.” receipt. of Tickets for second class saloon passage to 1England ‘</p> <p>“ith sincerc rt-«vrct; 11'11 announce the quite-11n- timely death of Miss loana Claiisa</p>	<p>4 Perth cut to our last week's culling from Tr: ll'L touching a certain correspondence from a Mr. Ampmh of Frankfort Chambers Ac (to, Cape Coast, ,x we again cull the. followtng from thea same paper of“ the tth De ember last, our comment'ou which “(3 i once more rmerve .—</p> <p>“It seems that the letter from a Mr. Ampinh to a London Trade'zman recentl} published in 'l'rulh la a sample of a very Common class of communications from that part of the wbrld. l'he huamew notions of the ni'_':er trader are evidently somewl at. chaotic; ()ne of them writes to a cor-respondent whom he addresses as a “book seller and news -\gent. ' 4</p> <p>““Your name was highly recommended to me hv a certain mend of mine that y u are, the bet \shol manufacturing. so that I “ant your Samples, Catalogue, the A'C. ‘</p> <p>‘ In another one. two ingenuouq youthq wrote that: they had heard some hlft'k m -n wt-re wanted to learn the hook trade. and proposed to C(nne 4.” receipt of Tickets for second Llilfils' saloon pa<<age to 'lmgland‘</p> <p>p ,\</p>
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<p>lhoiupsmi whit' 'h occurred on the last d1) of the past 1131111.. She- 11111: the :11Y11cti11nate dauuhter of Mr. J. F. 'Thmnopmn of tho Treasury and niece" of Rev. hggir and har'xi' ter lioli .-\saa1'11. For, sanetime she had 1111111111111111 from some malady which certainly newr sag; «\$1111</p> <p>tin: anticipatit'in of this sad occmrecc. "For '1 dd 1-! «111 h amiahlc and respectful disposition to 111- ('u[otl 1n the tlo11cr of her age is athcting iudeo-d 11nd l11_1_1ond what the human pi-n could (lescrilm To the l)('Pfl\ 11d 'family we tender our synipathn» sincere and unallo1'ed..</p> <p>\11od11'o Monsnli, a ch11 er 101mg Bricklmer hrotheruf \l 1'.J.J. 1105 of .'Mau inimdii- d 1-1111 11-1111 (.11 the lat inst; It appears he 11115 slightly indisposed</p> <p>l</p>	<p>With sincere regret we announce the quite nn timely death of Miss Joana Clarisa Thompqon "l u'h occurred on the la<t d iy of the paxt w ir. . She- wag the atl'ectumate dauuhter (i Mr. J. l' 'Thmnopmn of the "limiaury and niece of Rev. lag)" and bani zer Koti Amati). l'or sometime she had been ailing ,fl'uu] come malady which certainly newr sir meted the .mticiiation (If this «ad occmrecc. "For" girl of such amiahle and rmpctful dispoaiton to m- tut otl in the tloaor of her age is atlicting indeed and he_\ond "hat the human pen could (lescrhe To the hereaved 'family we tcuder our sympathy- (incerc and unalloved.</p> <p>J. :-</p> <p>Kuodwo' Mensah, a clever youn" Bricklmer hrotherof " Ltd J. Kofi Of .Wu innudh-d Nitl lcnh (. u the l-t inst. 1t appcars he "as alightl) iudtspoaed</p>
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<p>14</p>	<p>_Ho'w many. were with us in the field during the past years bivouacking we cannot estimate, but the fact certainly brings to our remembrance, the recollections of many dear ones whose company and faces we shall never have the pleasure of sharing and seeing on earth, for since the divine edict went out—"Dust' thou art, and unto dust shalt thou re-</p> <p>turn," it has had its vigorous operation, making no</p> <p>' distinction between great and small, rich and poor,</p> <p>"lathe man ;o£ many. surroundings. and 1the orphan".</p> <p>For it: is' an order that must pass on all men.</p> <p>Whatever the year 1903 has in store for; is</p> <p>a mystery known only to the Great and merciful ~</p> <p>Creator, the Steersm of our destinies. But we must surely be vigilant as become men waiting for</p> <p>unexpected event, strange appsritions and unpleae- ' ant occurrences, especially in this Gold Coast of ours,"</p> <p>the land of strange and unexpected .v.sions</p> <p>At the onset we must wake up from our long and '</p>	<p>Hc'w many were' with us in the field during the past year's biveuacking we cannot estimate, but the fact certainly brings to our remembrance, the re collections of many dear ones whose company and faces we shall never have the pleasure of sharing and seeing on earth; for since the divine edict went out—"Dust thou' art, and unto dust shalt thou re turn," it has had its vigorous operation, making- no distinction-between great and small, rich and poor, _ the man of many surroundings and the orphan—</p> <p>For it is an order that must pass on all men.</p> <p>Whatever the year 1903 has in store for us is</p> <p>a mystery known only to the Great and merciful ~</p> <p>Creator, the Steersm of our. destinies. But we must surely,be vigilant as become men waiting for unexpected event, strange appsritions and unpleas- ant occurrences, especially in this Gold Coast of ours,' the land of strange and unexpected .v'smns.</p> <p>At the onset we must wake up from our long and miserable lethargy, if we must achieve some good reforms this year. Our fathers in their time play ed their part well and we should for 'shame play' our part well and as much as lies in our ability, so</p>
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miserable lethargy, if we must achieve some good reforms this year. Our fathers in their time playé

ed their part well and we should for shame play'= our part well and as much as lies in our ability, so -'

~ that we might leave footprints worthy of the tread.

ing of our immediate succenora, and: at the ,end of .

the year may be able to ejaculate conscientiously
"I have done what I could during the past . ear."

And now, _dear reader, I wish you a hsp and

prosperous New Year.~ ~
a Yours faithfully,—A'roo.

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_ hide not thinking- that the public could judge other-

wiseby-the portion'of the correspondent which runs 1
as follows:—" The absence unavoidable or otherwise,
of the majority, however had a tendency to compli-
cate matters but those present after much consid-
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ing for him at Ayeldu to hear 'the glad tidings which

is the resolution of the Borbor Kings against the King of Abura on their behalf Re. his claim of- the Assign land," hence it was a disappointment to them in consequence of the non-attendance of the Borbor Kings, yet they shall meet again.

Both the correspondent and the Ayeldu chief were cunning to omit mentioning the valuable hints

\ they had that the D. C. at Salt Pond had been or-

dared to retire them at once, the actual cause that hurried up the closing of the convention. If the

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Mathews Wrightson & Co.

of 32 Great St Helens, London E. C.

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take over the business carried on by him for

some years past. '

'1 his Firm having a much larger Capital and

a very efficient staff of assistants, available for

the working of their business, Customers- will

undoubtedly reap greater advantages than he , i

has hitherto been able to offer, especially as

regards the prompt shipments of Goods ordered '

As the new business will remain under his 1 '

management any indents Clients may be pleased

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'Thanking you for your esteemed

ADVERTISEMENTS ,w, '

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Firm

<p> cemmands in. the past and trusting you may do a large and mutually ,satisfactory trade with the Firm in the future and seliciting the continuance of ' same . - - . J D. AAKUw—Age'nt ., To be let one Large Store 111 De Graft's Hall formerly known as Holdbrook's St01e. For part1culars apply to Mr. J J. Kwofi Jerusalem Street Cape Coast. Bernard thcks % ' I 'a Firm time. It 1s a pity the Court of Justice should be subjected to such indigmty. Number of deaths for the week is registered at 9. " MOVEMENTS 'oF STEAMERS. OUTWARDS. . Due at Cape Ceast. f/ . Warri Opobo service i . Jan. 8 ' , Accra Brass service ~' " ,, _ll Burutu, Lagos Express service . ,, ' 12 nganga Opoho service ' ,, '22 Coomassie Brass service - ,, 25 </p>	<p> in the future and solic1ting the continuance of same . J. D. AAKU,---Age'nt. . To be let one Large Store in De Grait's 'Hall formerly known as Holdbrook's Steie. For particulars apply to Mi. J J. Kwofi Jerusalem Street, Cape Coast. 'a Firm time. It is a pity the Court of Justice should be subjected to such indignity. Number of deaths for the week is registered at 9. MOVEMENTS 'GF STEAMERS. OUTWARDS. Due at Cape Coast. Warri Opobo service ' Jan. 8 " Accra Brass seririce ,, 11 Burutu Lagos Express service ,, 12 nganga Opoho service ,, '22 Coomassie Brass service ' ,, 25 Volta S. W. service ' ,, 27 Melita Bohlen G. C. Express service ,, 16 Eleo. Woermann Accel. Main. Line ,, 27 HOM'EWARDS. Adolph chrmann Accel. Mail line Jan. 11 Bonny Brass service " 15 . ' Jebha ' Lagos Express service ', 1'6 ' Axim Opobo service ,, 18 Tarquah South Coast Express service ,, 23 Bathurst Brass service ,, 29 '4 m ' 'ELMINA. . (Faou ooa Conansrosnsr) Sister MaCarthy-of the-Roman Catholic </p>
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<p>Volta S. W. service! -' ' ,, 27 Melita Bohlen G. C Express service ',, 16 , Else. Woermann Acccl. Main Line , :1 27 ' HOMEWARDSP _ Adolph chrmann Accel.Ma1ll1ne Jan. ll Banny , Brass service ' ' - ',, 15» ' Jebha ' Lagos Express service , ',, 1'6 ' _ Axim Opobo service . -, 18 Tarquah South Coast Express service ,, ' 23 " .Bathurst Brass service , -, 29</p> <p>.r "" - \ ---</p> <p>21.111115. .</p> <p>('Faou oua Co'nasspoxnsu'r) Sister MaCarthy of the Roman Catholic Mission</p> <p>.died here 011' the 28th December last.</p> <p>Mr. Justice Stanley Morgan arrived in town i</p> <p>I from Cape Coast on the 291h of December last to</p> <p>preside over the Civil Assise which commenced on the following day (50th Diem) There were nearly 25 Cases on the hearing 11st. From what we find, ' His Henour was not intended for a permanent stay ',</p> <p>here as he is to sit at Cape Coast and Saltpond as J well. . '</p>	<p>Mission</p> <p>.died here on the 28th December last</p> <p>Mr. Justice Stanley Morgan arrived in town from 'peCa Coast on the 29th of December last to preside over the Cin Assise which commenced on the following day (50th Doc.) There were nearly 25 Cases on the hearing list From what we find, His Honour was not intended for a permanent stay here as he is to sit at Cape Coast and Saltpond as well.</p>
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<p>16</p>	<p>The 011111 Coast Le</p> <p>... ..</p> <p>dc .</p> <p>_VUI. I. No. '23.</p> <p>... ..</p> <p>THE GOLD _COAST LEADER. rusttsnsn ON SATURDAYS.</p> <p>_____o-oç-_____</p> <p>TERMS 50F SUBSCRIPTIONS. (I Div/able in advance.) Cape Coast. Abroad. Annual ..10/6... ..14/6 11111142111. .5/6... 7/6 Quarter. 3/—.'.. 4/-</p> <p>L.</p> <p>AD\ ERTISING SCALE</p> <p>_:0. ———</p> <p>Advertisements _should be sent to the</p> <p>Office" at Saltpond Road, at least ~three- ~</p> <p>days before the day of publication.</p> <p>Tw'elu lines and under 5/- Additional lint: .. -, '6 Birth Death or Marriage 2/6</p> <p>bpet 1111 arrangements can be inade for adx e1t1se111e11ts fo1 longer periods.</p>	<p>I</p> <p>VUL 1. No "3.</p> <p>THE GOLD COAST LEADER. PUBIIISHED ON SATURDAYS</p> <p>TERMS SOF SUBSCRIPTIONS. (Payable in advance.) Cape- Coast. Abroad. Annual ..10/6... ..14/6 Half ear. ..e/G... .. 7/6 Quaiter. 3/ .. 4/-</p> <p>ADVERTISING SC XLE. '0.'</p> <p>Advertisements should be sent to the Office at Saltpond Road, at least three</p> <p>days before the day of publication. Twelve lines and under 5/ Additional line [6 Birth, Death or Marriage "/6 Special arrangements can be made for advertisements for longer periods. 111 Communications intended for pub lit-anon should be addressed to the Editor. Business Communications and remit tam-es either in Cheques or Post Office Orders should be sent to the Manager, "Gold Coast Leader" Ol'fice, Saltpond Road, Cape Coast Wést Africa. For copies of the 4,: er please apply to the Stores 01. " :yf ES;E. Anrnun, .iit Chapel Squar' - ' ,tin Street.</p> <p>Messrs. McLa'reii}; Bros. and Company</p> <p>'of Manchester and the Gold 09%" prepared to let their \\ ell and completed Rooms (modern style) at their .Housés' '_Sek0nd1, vi/ "l)idsbury,: ' "African," an 1" "Victoria" situate at the Market and PoaSie Road.</p>
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111 L'11111111u11ic11tions intended for pub-
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situate at the 1111111111 and Poasie
Road. Cooks
and cooking utensils at hand. . 1

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Cooks
and cooking utdnsils at hand. 1

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office

:11 '7 Mount Street, Manchester

H. REGINALD. Aiioxoo.
A'geizt.

Cape Coast, \ov. 5.

PUBLIC NOTICE.

I the undersigned hereby give the public
Illls \oticc that I own all that piece or
parcel of land situate and being between
]\()li0rkl'ziba and Aboom and bounded on
one

side by the math leading to Kwabotchay, a
pm non of 11 hich is included in the public
road,

on one side .by the road leading to Aboom
Wells, 3. pmtion of ,which also is included
in

the public road, whieh separates the party
1mm Brown and Pietersen's and B, 'ofi's
plantations, on one side by J. P. Bmwiu
land

and on one side by James Frys land and the
Hausa Cemetery: which said piece}, or
parcel

of land was purchased 98 years ago Q the
late

"illam Martin of Cape Coast directii'ih'om
the

1.111- 1111.111 Chief Quasie 1111.111 of
0*» Coast

~11'i1h the knowledge consent and
continuance of

his Headmen and Councillors in this)'form
of

conveance which I now hold; and that any
p11son or persons found trespassing on
the said

<p>office :11 2 Mount Street,Manchester, "</p> <p>' H. REGINALD. Anoxoo. " Agent. '</p> <p>"Cape Coast, Nov. 5. - 1.</p> <p>PUBLIC NOTICE</p> <p>:1 1 the undersigned hereby give the public this notice that 1' 0111111311 that piece or parcel of land situate and being between</p> <p>Konorkraba and Aboom and bounded on one"</p> <p>side by the road:2 leading to Kwabotchay, 12. p111 non of which 1s included 111 the public road on one side .by the road leading to Aboom</p> <p>Wells, a portion of ,which also is included :in' Petty"</p> <p>the public road, whieh separates the 1111111 Brown and Pietersen's and B, ' 1; ' 'ofi's plantations, on one side by J. P. Browns land :1111 011 one side by James Frys land and the l'Hnusa Cemetery :---whicli 1111111 piece}, or "parcel of land was purchased 28 years ago "illam Martin of Cape Coast direcfi'h'om the 11111.- Head Chief Quasie Attah of '-\itl1 the knowledge consent and concurrence Of</p>	<p>pr-op1rty or any part or parts thereof (except such outlying portions on two sides which now from paitis of public roads) will be dealt with according to LAW.</p> <p>her ' CHARLOTTE x M XRTIN.</p> <p>mark ' Cape Coast,'3rd December 1902.</p> <p>Writer and witness to.n1ark, BANNERMAN \JAR'I'IN.</p> <p>' nainely'</p> <p>NOTICE.</p> <p>We the undersigned for ourselves and on behalf of the inhabitants of the village of Aguna in the Distiict of Elmina do hereby state for the information of the Public in general that as Kwamina Assa'nkuniah has been destooled he is no longer tl1e.Chief of that village.</p> <p>Kofi Essiadoo has been installed in his stead and all communications in reference to that village or any lands belonging thereto are to be made to him as Chief in authority in that village</p> <p>Dated at Cape Coast this .ith day of Decelnber 1907. their KUIHN 111 Bi SL'MI'IM .1. Qtow 1\.\'.\' a</p>
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<p>his Headmen and Cohnci'llois in (1116)'form of"</p> <p>conveyance which I now hold; and that any pt l'sOll or persons found—trespassmg on the said property or any p'art or parts thereof (except such outlying portions O11 two sides which now fo1m parts of public roads) will be dealt with</p> <p>accordintr to L AW ' her CH ARLOTTEX . MARTIN. mark ' Cape Coast, 3rd December 1902 11 ritcr and witness to mark, Basssnas Manny. .</p> <p>the late"</p> <p>Coast .</p> <p>and</p> <p>3</p> <p>NOTICE.</p> <p>We the undersitmcd for ourselves and on be-half of the inhabitants of the village of Aguna in the Distact of Elmina do hereby state for the information of the Public in general that as Kwamina Assa'nkumah has been dcstooled he is no longer the.Chief of that village. - Koi1 Essiadoo has been installed in his</p>	<p>K11'ss1 ASSAVKL'MAH 1 Witness to marks & writer of names, marks</p> <p>T. A. Dams. .1</p> <p>1471111111111111": St, ('upt ('U'lol.</p> <p>Mr. Bernard Hicks</p> <p>79 Mark Lane, London, has the pleasure to inform Clients on the Coast that he has been able to make arrangements with Messrs. , Mathews Wrightson & Co.</p> <p>of 3° Great St Helens, London E C, a Firm of acknowledged standing and reputation, to</p> <p>- take over the business carried on by him for some years past.</p> <p>This Firm having a much larger Capital, and a very efficient staff of assist-nits, available for the working of their business, Customers will undoubtedly reap greater aduintages than he has hitherto been able to offer, especially as rewards the prompt shipments of Goods ordered.</p> <p>As the new business 1111] icinain under his management any indents Cl1t 111:; may be pl1 used to fa1 our th1 firm will as hentolorc l'LCCIVU his best and personal attention</p> <p>Thanking) 'O11 for your esteemed commands in the past and tiustinu you may do a lawe and mutually ,satisiactoiy trade 11ith the</p>
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<p>stead 'all communications in reference to that village or any lands belonging thereto are to be made to him as Chief in authority in that village;'</p> <p>Dated at Cape Coast this 5th day of 1)12cce1n~</p> <p>ber 1902., 1111211 K111111- 111 111111 111'111 1; Qt ow AN as x</p> <p>K11 ssx Ass ANKL'M 111 x W 11111215 to marks 11 w ritor of names, marks</p> <p>'1 A711 issukyrr St, L'upc (1011.11.</p> <p>Mr. Bernard Hicks _</p> <p>79 Mark Lane, London, has the 1'1112_:1s11rc"to inform Clients 011 the Coast'that he has been able to make arrangements with Messrs.</p> <p>Mathews 1Vrightson & Co.</p> <p>of 3'2 Croat St. l'lelens, London E. C., ':1 Firm of acknowledged standing and reputation, to -take over the business carried on 11y him for some years past.</p> <p>This Finn havimr a much larger Capital, and a very efficient st: 1ti oi .1ss1st 111ts avail.- 1111e for the working of_ their business, Customers will</p>	<p>lii'm in the future and soliciting the continuz .150 of same - 'J I)</p> <p>A \Kl', .lg/(iif.</p> <p>"1 1:4 A Pofessional llook keeper many years con nection, desires employment at Cape Coast or elsewhere For Salary 1\'c c., apply ./iril ('1) Editor.</p> <p>To ALL TC) 1111011 l'l' 111v. cmcnxi</p> <p>The public 'may please take notice that in accordance With the Documents and papers, prohibiting our Evccutmsh'ip to the Estate of the late James Quashic of Kwainan 11nd Salty pond who died on the 3rd.S1-.pt l'tll at the 5</p> <p>formcrplace, dated on the SthApiil l'NI' (which '</p> <p>bears stamping date of 5th \lay 190" No. 163 '09,) Having been given to its the under signed by the undeiiiicntioncd parties members of the rela1ives of the above named deccasc, Yaw Vkum, dmba Kuuia, Ekna Osam, Amba Ekuwa, Ekua Aframba and Kwa Appiah of'whose letter of administration were . duly granted to us by the Divisional Court at</p>
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<p>111111.211 prohibiting our Executorship to the Estate of the late James Quashie of Kwaman and S:-1lty pond who 111.211 on the 3rd. Sept. 1'10] :11 the</p> <p>bears statiiing date of/5th May 1902 No.</p> <p>1631 02,) Having been given to 11s the 111111'12rr'</p> <p>signed by the undcrmentioncd p111 t11.s 111e111bers of the relatives of the above 1111111211 deccase, namely —:Y:1w Nkum, Amba Kuma, Eku:i O,sam Amba Ekuwa, Ekua 1111111111111 and Kwa Appiah of whose letter of administration 1112112 duly granted to us by the Divisional L ourt at</p> <p>' Cape Coast since the 17111 day of Dccembcr \\ e now give public notice that we are 1 1901.</p> <p>under his ,</p> <p>no more Executoi's and Administiatots to the ,.</p> <p>Estate of the above muncd deccase. In future all letters and legal claims concerning it must</p> <p>be sent' to the deccascds 1'e1ativesal"2111121111111-C</p> <p>tinned; December 1902.. '</p>	<p>St. John's Day on Saturday the "1111 £111. to all appearance the Society is in a flourishing condition.</p> <p>Adieu 1</p> <p>The llarmattanseason has been rather severe this year Tradition tells us this is an indication of 11 prmperous vear. ,So may it be. "1: trust it will help to allay the deadly effects of the Plague and divers diseases</p> <p>The Merry go round has contributed largely to the iiierrimcnt of the season.</p> <p>Some of the Bentsil people who were arrested the othe r d 1y have bec 11 sentenced to imprisonment.</p> <p>The Maknimuhu Club had their yearl1 rct'rea</p> <p>tions at B. J. liuoli's plantation on the Christmas Day.</p> <p>The inhabitants of the Market place and ik vicinity i'll'f' renmving in 1iew of the Victoria Park 11 hich 11ill \tmll be in course of erection. The pity istln- inadequate sums which are being paid to house owners, not sufficient, all round, for the purchase of ground much more for building.</p> <p>Conimissaiiat House 1111. which from all</p> <p>There was a ball titrtln'</p>
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W. 11. B. Q1'.\1sox
 ' (Anmnaboe)
 ', I
 D.\.'11;1. A, Jaexsox-
 Saltpond

Dated at Anamaboe this 11111 day 01'

Forum Executors and Adnnnt: 11101:
 to the .

.aboxe named dcccnc. ' ' "

_ «endow

_f'front 1vround of the Hotel premiscs'

I'rice 3d.
 Including postage 4d.

\

GENERAL NEWS.

Mr. de Graft Johnson gave a breakfast
 on
 Sunday the 23111 inst. at his new
 building
 (Kawanupardu.) '

The Masons in town celebrated the
 festival of
 St. John's Day on Saturday the 27111
 1111. to all
 appearance the Society is in a flourishing
 condition.

Adieu 1

The liarmattan season has been rather
 severe this
 year. Tradition tells us this is an
 indication of' :1
 prosperous year. .811 may it be. "1:
 trust it will

on the night of the Itlih
 appeaance, came off nicely.

\Ve regret to report the death of ..I. P II.
 Orleans
 which took place at Accra on the 31:11. ult.

A Correspgrulgu; writing from Obuns'ie
 reports a
 serious conflagration there that entailed
 heavy
 losses. besnles laying desolate many
 buildings.

Another correspondent ertf's from
 Sekondi,
 who after remarking on an unfulfilled
 promise of
 tho Sekmnlh Lightrrnge and Hotel Company
 to
 endow the hotel there with 11 \lanageress,
 com
 plains bitterly over the over grown state of
 the
 "front ground of the Hotel premises" with
 "gra's"
 IIIIn creating ita nursing 1ard for " snakes
 and
 Vt'l'IIllgultir feeding the guests. He wishes
 to
 call the attintion of the Sanitarv Inspector
 to this
 and sum't'sts the coiiientin'r of the pav ed
 "round.

Pertinent to our last week's culling from
 Trill/'1
 touching a certain corr-espondente from a
 \lr.
 Ainpiah of Frankfort Chambers 11m «c,
 Cape Coast, .,
 11c again cull the foll011iiig from tin-s sann
 paper of"
 the lth Dot-ember last, our comment on
 which 111 '
 once more rescue.

"It seems that the letter from a "1'. Ainpiah

<p>- help to allay the deadly effects of the Plague and divers diseases.</p> <p>The Merry-go-round has contributed largely to the merriment of the season.</p> <p>Some of the poor who were arrested the other day have been sentenced to imprisonment.</p> <p>The Makwimubu Club had their yearly rally.</p> <p>tions at B. J. Luvu's plantation on the Christmas Day.</p> <p>The inhabitants of the Market place and its vicinity are moving in view of the Victoria Park which will soon be in course of erection. The petty inadequate sums which are being paid for the house owners, not sufficient, all round, for the purchase of ground more for building.</p> <p>There was a performance at the on the night of the appearance, came off nicely.</p> <p>Commissioner's House which from all</p> <p>"With regret to report the death of Mr. E. Orleans which took place at Accra on the 31st; ult.</p>	<p>to the London Tradesman recently published in the following is a sample of the very common class of communications from that part of the world the business notions of the native trader are evidently somewhat chaotic. One of them writes to a correspondent whom he addresses as a "book seller Agent."</p> <p>"Your name was highly recommended to me by a certain friend of mine that you are the best tool manufacturing. so that I want your Samples, Catalogue do A.C."</p> <p>"in another case two ingenuous youths were that they had heard some black men wanted to learn the book trade. and proposed to come."</p> <p>receipt of Tickets for second class saloon passage to Highland "</p> <p>and news</p> <p>,1</p> <p>With sincere regret I announce the timely death of Miss Joann Clifton Thompson which occurred on the last day of the past year She- was the affectionate daughter of Mr. JWF Thompson the Treasury and niece of Rev. Ezyir Nd "qu Ixoli. For sometime she had been ailing</p>
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Obu1'1s'i12. reports a
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entailed heavy
losses. besides laying deSolate many
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Another correspondent writes from
Sekondi, '
whoafttx rc111'1rki112rt11111n
unfulfilled promise of
the 'sekondi lighterz-l'e and Hotel
Comp'my 111
11112 hotel there “111111. Managertss,
com-
plains bitterly over the over-grown st'tte
of the
with “gr 13s ” .
illlln 1r12111nrV 1111 nursing vard for
“snakes and
111111111131..- feeding the guests.' He
wishes to

call the attention of the Sanitary
Inspector to this

and sugvests the cementin'r of the- par
cd "round

Pertinent to our last week' 3 cullim, 2
fiom Trot/'1
touching a certain corr-espondenteb
from a Mr.
Ampiah of Frankfort C111'11nbt21s tt'c
ac, Cape Coast, >1
we again cull the followin2r from thes
same p: 1pc r of'd'
111121.111 l)c1 ember last, our
commenton which we i
once more reserve; — ,

,from some malady 11 hich certainly neur
suggested

tli1-aiiti1ipation of this sad occmrence.
”For 11 girl of
«111 h amiable and respectful disposition
to 111- cut
oil in the tlo11c1'of her age is afflicting
indeed and
b1_1ond “hat the human pt'l] could
tlescr1111.'l'o
the /l)(l'Pfl\ 'P(l 'family we tender our
sympathy
{sincere and unalloyed.

R11 od11o' Mensch, a clever 101mg
Bricklmp
brothel-of Mr J J. Roll of “4/10?! innuilh- 1i
sud l1n1 1 u
the Ist 1115!. It appears he 1111s slightly
indisposed

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and news
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"Your name was highly recommended to
me 111 a

p

. -. certain friend of mine that you are
the 111st 1.1.1.1
formerplace, dated on the
81h Apt' 11' 1112 (which. 2

manufacturing, so that I want your
_b'amples,
0111.111111u12,1112112c. ' ,

"In another case two ingenious youths
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they had heard some black 1111211 111
r1 wanted to

-It: In the Imok trade. and proposed 111
come (1"
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passage

to '1'. 111111111111"

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11112 '1'112usury and niece' of Rev.
hg'fir and Haiti ier

liiii Asaafn. For. sQ111etiu1e she had
bet-nailing

”,fluu] some malady which certainly
neVer suggest: d

t_2111 :1111i1ipati1111 of this sad
occurrence. '1' 1112 a girl 111'

«11111 amiable and respectful
dispositiop to 1.1-1-111

' 1111 1n the flower of her age is
atlhcting indeed and

To

1111111111 what the human pt-n could
describe.

the bereaved 'family we tender our
sympathy—

. 'incere and unalloved.

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the let inst: It appears he was sidhtly
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<p>17 . I December] t.</p> <p>I 'precincts of the town.</p> <p>9 1 we ask the cause of this frequ</p> <p>2.</p> <p>~ for a few days. c..We' tender our heartfelt aym.</p> <p>pathy to the bereaved family.</p> <p>Number of deaths for the week 111 registered at 9.</p> <p>We deeply regret to have to record the death - of Mr Francis Chapman Grant which took place at the Salt Pond House this morning. The Masons and the Foresters attended his funeral which took place in the evening. 1 '</p> <p>_ Mr. J. D. Abraham also lost a brother the day - before (Friday) Anan he was called, a bricklayer.</p> <p>The bereaved families have our sympathies.</p> <p>11ovsusivr'si'os 'srsmsas.</p> <p>' OUITWARD.</p>	<p>2.</p> <p>THE GOLD COAST LEADER. .</p> <p>J as. 3, 1903.</p> <p>for a few days.r.We tender_our heartfelt aymoi nights. I What can three policemen do at such a flown into the batman from; whence it will</p> <p>pathy to the bereaved family</p> <p>Number of deaths for the week is registered at 9.</p> <p>We deeply regret to have to record the death of Mr. Francis Chapman Grant which took place at the Salt Pond House this morning. The Masons and the Foresters attended his funeral which took. place in the evening.</p> <p>Mr. J. D. Abraham also lost a brother the day before (Friday.) Anan he was called, a bricklayer</p> <p>The bereaved families have our sympathies.</p> <p>movements or. srsmsas.</p> <p>OUTWARD. Due at Cape Coast. Cameroon S. W. Coast service Dec. 30 Sekondi S. C. Express service J an. 5 Warri Opebo service ,, 8 Accra Brass service ,, 11 Burutu Lagos Express service ,, 12 Egs anga Opobo servrce ,, 22 Coomassie Brass service ,, 25 Volta S. W. service ,, 27 ' HOMEWARD. Loanda Brass servrce Jan. , 1</p>
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made, turned out to be a craft. the beach at 4. 30. that morning with the hopes of welcoming His Excellency, the Governor on board the Philippem'lle were not only sadly disappointed, but

I__ rightly served, the signalman havingb'ee'ngpgciently pressed to do that duty, and as a matter of fact His Excellency did not land here as was expected.

The Case Ben: 11. Grant terminated in the acquittal of the accused on Tuesday the 16th

We hear a fresh warrant has been issued aga t Grant for a second act of felony and the police are fishing up every quarter of Sekondi fer the youngman.

to be so silly and ignorant as to believe all such trash and follow up the instigation, purely sentimen-

131,151 simpletons and avengers who simply do that '

" to give "Roland for an Oliver."

011 Sunday the 28th ultimo, an unusually 318d number of people were arrested for committing nuisance about some remote portions in the The police, as they call 'themselves, are but scavengers disguised like the daw in borrowed plume The increase in

Sekondi for the youngman. As the case stands there is every reason to believe that it is 'the action of a secret Agency But it is a pity that people can be found to be so silly and ignorant as to believe all such trash and follow up the instigation, purely sentimen tal, of simpletons and avengers who simply do that to give "Roland for an Oliver."

On Sunday the 28th ultimo, an unusually grgat number of, people were arrested for committing nuisance about some remote portions in the 'precincts of the town. The police, as they call themselves, are but scavengers disguised like the daw in borrowed plume The increase in population demands in a permanent way an adequately. good number of latrines after the fashion of those at Accra and Cape Coast. This should be supplied before a stop to all this nuisance

in the' outskirts of the town could be reasonably effected.

Of late there have 'been frequent interrupt the Telegraph lines, but during the week had enough to sicken our souls. . From we ask the cause of this frequ unpleasant occurrences ? If not from Fdremap' of Telegraphs, we may rightly ggest to the Govern ment the necessity of a ranch cable being laid connecting Axim and/this place, between

<p>population demands in a permanent way an "adequately good number of latrines after the fashion of those at Accra and Cape Coast. This, should be supplied before a stop to all this nuisance in the outskirts of the town could be reasonably effected.</p> <p>Of late there have been frequent interrupt' the Telegraph lines, but .lduring the week had enough to sicken our souls. .From</p> <p>"unpleasant _ occurrences ?' If not from Fdremap' , of Telegraphs, we may rightly ggest to the Govern- ment the necessity ofa ranch cable being laid connecting Axim and/ he place, between which ' most of the linterruptmns occur</p> <p>A party of railway officials headed by the Chief .</p> <p>' Resident Engineer 1eft by train this 'mOrniugl for .-the interior.</p> <p>opened to Obuassiea</p> <p>All very noble work!</p>	<p>which most of the interruptidns occur. .</p> <p>A party of railway officials headed by the Chief ' Resident Engineer left by train this incrniug for the interior. The expedition, as understood is to arrange matters as regards traffic on the line now opened to Obuassie. A very noble work!</p> <p>. I. .CHAMA.</p> <p>. (Fae: onii Coaassrosnsicr.)</p> <p>, The local Soho-or as vacated on'the 15a. ultimo for the Christmas ho idays. '</p> <p>A burglary was committe at the store of a Tailor Lawrence on the 23rd ultimo. The thieves have not al et been discovered. We would suggest that t c authorities provide this place</p> <p>pith more constables to guard the town at l</p> <p>densely populated town?</p> <p>We regret to learn of the indisposition of the Superintendent Minister of this Circuit. We Wish him a speedy recovery. '</p> <p>The Sunday. School .work here has not been lack ing in interest. Mr. T. M. Bilson its indefatigable Superintendent is working assiduously and</p>
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<p>CHAMA.' .. I ' (no; one ICloaassrosnaurh)</p> <p>. The local School as vacated on the 15th ultimo for the Christmas holidays.</p> <p>A burglary was committed at the store of a Tailor Lawrence on the 23rd ultimo. The thieves have not as yet been discovered. we would ; suggest that there ' With more constables to guard the town at</p> <p>I .</p> <p>' nights</p> <p>The officials who hurried to.</p> <p>As the case stands there is every reason to believe that it is the action of a secret Agency. 'But it is a pity that people can be found '</p> <p>The expedition, as understood" is to arrange matters as regards traffic on the line now '</p> <p>authorities provide this place.</p> <p>111E GOLD COAST LEADER...</p> <p>What can three policemen do at such a densely populated town? .</p> <p>We regret to learn of the indisposition of the. Superintendent Minister of this Circuit. We wish him a speedy recovery.</p>	<p>conse</p> <p>quently the work done by the Scholars is of a pleasing and commendable nature.</p> <p>The Chains Wesleyan Mission House is a model of what a Tropical Mission premises should be.</p> <p>It is reported that a branch of the Sekondi Railway will soon be laid this way. We hope this will prove to be a true report. '</p> <p>ELMINA.</p> <p>(From one Counsellor)</p> <p>Messrs F. &A. Swanzy are putting on some temporary repairs to their old Coal Shed at the back of the Castle.</p> <p>As yet no relief has come for Dr. Browne. He does not seem likely to sit over any more cases in the D. C's Court.</p> <p>5 We understand Dr. Derwent Waldron is to succeed him '</p> <p>It is said that nearly fourteen vacancies exist at present for doctors on this Coast, the holders of the posts having resigned because they do not wish to be humbugged with magisterial work. All the</p> <p>Cases in the D. C's. Court have been adjourned sine die.</p>
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Mr. Matteer died on the 18th of last month.

The S. S. Cameroon is due here on the 99th; according to the latest arrangements cargo boats in the Southern Windward Service are to make the trip between Liverpool and this port in thirty nine days— an improvement this is.

ACCRA.

(Freon onn Coassponnsxr.)

The Juvenile Branch of the Free Gardeners Lodge (Friends of the Gardeners) held its second Anniversary on Thursday the 25th December last by a Thanksgiving Service at Holy Trinity Church at 2 p. m., the Rev. Hastings Kelk B. A., Colonial Chaplain officiating. After the service the members paraded through the town with a Band accompanied by Bro's John Arthur, A. O. Peters, n. R- J'. Buttman, John Amartiafio (adult members) and many ladies amongst whom were: Misses Marian Bruce, Amelia Bruce' Evans, Victoria Hesse, Lily Jane Biney, and Floral Quartey. They retired to Asorfur House (Bro. John Arthur's) whereas sumptuous "Fork and Knife" Tea was served.

The Accra Races under the Patronage of His Excellency Sir Matthew Nathan K C.M.G., RE.

<p>It 1a said that nearly fourteen vacancies exist at present for doctors on this Coast, the holders of</p> <p>, the posts having resigned because they do not wish</p> <p>to be humbugged with magisterial work. All the Cases 1n the D. C's. Court have been adjourned</p> <p>ems die.</p> <p>. Mr. IMatteer died on the 18th or last month.</p> <p>The S. S. Cameroon is due here on the 29th; according to the latest arrangements cargo boats</p> <p>in the Southern Windward Service are to make the .</p> <p>trip between Liverpool and this port in thirty nine days———an improvement this is.</p> <p>ACCRA. ' '(F3011 oua 0011111111011!)ax'r.)~ ' The Juvenile Branch of the Free Gardiners</p> <p>Lodge (Friends of the Gardiner-s) held its second . Anniversary on Thursday the 25th December last l</p> <p>by a Thanksgiving Service at Holy Trinity Church</p> <p>l at 2 p. ,m. the Rev. Hastings KelkB. 11.051.11.111</p> <p>Chaplain Officiating. After the service the mem-</p>	<p>came off splendidly on Boxing day and the day following This;drew many spectators from James 3: Escher 'Towns and Christiansborg. Mr. T. E. Fell, the rider of Major Kitson's Bekwai and the winner of 'the Governor's Cup with £20. must be specially~congratulated. ''</p> <p>Mr. C. J. Bannerman's Katawere won the Max well Memorial. Cup with £10. The Governor's Lessor Product and Greater Product won many prizes. The Trilly, the famous runner and winner of many prizes, owned now by Mr. Bonso Bruce, . lost all entrances this year.</p> <p>The tower in course of' erection .to the Holy Trinity Church is nearing completion</p> <p>The Harmattan winds have set in and have been \ , blowing fiercely. " £- Mr. H. E. Barker, Agent of F. «t A Swanzy ar rived here from Cape Coast by the Jim-um on Christmas Day.</p> <p>EDITORIAL NOTES. ' </p>
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bers paraded through the town with a Band accom-

panied by Bro's John Arthur, A. G. I, Peters L. R. J.

Buttmau, John Amartiafio (adult members) and many ladies amongst whom were— Misses Marian Bruce, Amelia Bruce: Evans, Victoria Hesse, Lily Jane Biney, and Floral Quartey. They retired to Aorfur House (Bro John Arthur's) where a sumptuous "Fork and Knife" Tea was served.

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To the fashionable and the conventional the festive season has entailed great expense.

Here and there, there is no end of exchange of gifts in every shape—in every form.

Perhaps there has been no Christmas in which there have been so much: animation and joy and pleasure as the one which has just closed. Young and old, great and small, the doctor and the fool—all have joined in the universal jubilation:

And so we are upon the threshold of the New Year. The old year the year 1902 has

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' never return, and 'with it, its joys and sorrows

' its failures and successes, its disappointments,

"its bereavements and losses whatever we have

done and suffered. Still there should be no rea

son to ' despair. . Now is the time to profit by past experiences, and to . be better nerved

to

face life's struggles. Withal let us have hope

hope which is much needed in the stress and gloom of whatever betide.

But for all that we will not omit mentioning"

the fact that the old year had been a very sad one to the community; young and old, rich

and poor, have all been called to the world

<p>lost all entrances this year.</p> <p>i The tower- in course of erection to the Holy</p> <p>' Trinity Church 18 nearing completion.</p> <p>The Hamattan winds have set in land have been i</p> <p>.. blowing fiercely. a. » --</p> <p>\</p> <p>Mr. H. E. "Barker, Agent of F. «t A Swazy ar-</p> <p>,Irrived here from Cape Coast by the Burutu on</p> <p>Christmas Day.</p> <p>MOW—wk -~. .</p> <p>EDITORIAL NOTES.</p> <p>"ix</p> <p>' To the fashionable and ' the conventional</p> <p>j'the festive season has entailed great expense.</p> <p>Here and there, there 1s no end of exchange of gifts 1n every shape—«in ev ery form.</p> <p>Perhaps there has been 110 Christmas in</p> <p>.which there have been so much: animation and</p> <p>joy and pleasure as the one which has just</p> <p>closed. Young and old, great and small, the</p>	<p>un known</p> <p>To all who have suffered during the year, the Leader tenders its heartfelt sympathy, and</p> <p>prays Him the friend of sorrows to grant them hope and consolation.</p> <p>But while tendering to all our friends far and near the compliments of the season, we</p> <p>take the opportunity to, thank our subscribers and other sympathetic friends who have testi</p> <p>fled their appreciation of our services by pay</p> <p>ing up their dues promptly and regularly It is our sincere hope that there Will be a stimulus</p> <p>to greater energy and determinatiOn for pros</p> <p>perity and success.</p> <p>Thanks to goodness! Our detractors before this paper was launched, predicted but a short</p> <p>career for it, many were loud in the vain as sertion that it would not reach a successful career nay, that it would not survive a few days of its existence. But, be it to their (115 credit, the "Gold Coast Leadei" has bad the</p> <p>'hiippy fortune to see these gloomy prognos</p> <p>tics belied. The "Leader" yet lives. It has not given up the struggle for existence It means duty and given duty, its destiny rests</p> <p>with the Great Director of.cvcnts. Good bye'</p> <p>About four years ago a dignitary of the</p>
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'11s. 3, 1903.

A'

.If IOWDI into the bourne from. whence it will ' never return, and with it, its joys and sonbws, ~; its failures and successes, its disappointmehts, "its bereavements and losses-wrwhatever w'e ll1ave

done and suffered Still there should be no rea-son to dispair. Now is the time to profit by past experiences, and to be better nerved to face life's struggles. Withal let us have hope

—hope which IS much needed 111 the slt1esa and gloom of whatever betide.

But for all that we will not omit

' Church; of England speaking at a meeting held

at Manchester by the members of the Society

formed there for the Protection of Native Races said: "There were three things they were

bound to endeavour to aim at. First we

' should aim at justice in every part of our Empire ~

Without reference 'to colour or creed. Next we should feel that we were charged with the duty of bringing all the best influences of civilization for the benefit of all those populations which belonged to' our Empire. But our greatest responsibility of all was to endei our to carry into those populations those blessings of the Christian life which are the greatest blessings in our own homes and lives."

W hen we look at how we are governed out here, when one sees what is going on around us when we observe the doings of the reprc sentatives of this Empire the Bishop speaks'of, what a vast difference' there seems to exmt between the actions of these men and the noble sentiments expressed here? Is it the fault of .thc men 01 the policy they bave' to pursue out here that this difference we speak of exists?

mentioning"
the fact that the old year had been a
very
and one to the community; young and
old, rich '

and poor, have all been called to the
world un-
known. , .

To all who have suffered during the year,
the Leader tenders its heartfelt
sympathy, and

prays Him the friend of 301101111 to
grant them
hope and consolation.

But while tendering to all our friends far
and near the compliments of the season,
we
take the opportunity to thank ou1
subscnbers

and other sympathetic friends who have
testi-

fied their appreciation of our services by
pay-
ing up their dues promptly and relrularly.
It
is our sincere hope that there will be a
Stimulus '
to greater energy and determination for
p1 os-
perity and success.

Thanks to goodness! Our detractors
before '
this paper was launched, predicted but a
short
career for it, many were loud in the vain
aa-
sertion that it would not reach a
successful
career—nay, that it would not survive ,a
few

Can there be no remedy if we must be
made
willing, and cheerful subjects of the British

Throne, that is, if 'we are to be accounted
as
part of the Empire.

We'do not consider the treatment which
has
been-given to the Bentsir-people, arrested
the .
other day, fair or right. This handful of men
have been fined £70, or imprisonment,
what
for, we cannpt tell. How easily the
Government
chest can be filled. But'what is their
charge.
And we are told that the oficer'ent to
arrest
them in the way fired .into them. This is a
serious affair and we hope 'His Worship
Mr.
Peregrine will look into it.

The report goes that the men refusing to
pay
,this amount (fourteen of them)werc
starved,
probably to make them pay. Food is not
supplied' them nor would their people be ,
allowed to take food to them.' The
observant
ones among us think that the treatment
now
given to' the natives is very hard and most
unfair) as coinparyedto What it used to be.
It is
because more money is wanted for
travelling

'and' duty allowances far there is an urgent
need for prison labour. '

days of its existence. But, be it to their dis-credit, the "Gold Coast Leader" has had the

happy fortune to see these gloomy prognostics

belied. The "Leader" yet lives It has not given up the struggle for existence" It means duty and given duty, its destiny rests with the Great Director of events. Goodbye!

About four years ago a dignitary of the

Church of England speaking at a meeting held

at Manchester by the members of the Society

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Races said: "There were three things they were bound to endeavour, to aim at. First we

should aim at justice in every part of our Empire ~ 3

without reference to colour or creed. Next we should feel that we were charged with the duty of bringing all the best influences of civilization

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<p>18</p>	<p>his head to have arrested.</p> <p>Jim's; 1903. ' , Really what is going on now in these days is most un-English. . ' '</p> <p>It is true that "economy is no disgrace," but that economy» which makes" Government Offices</p> <p>' stand in sore need of stationery is most disgrace-</p> <p>f 111 especially if'we look atit at the way, fines (and heavy fines too) are inflicted for every mortal thing, no matter how trifling, it may be. Is Governor Nathan also likely to disappoint us as a Governor? What is there on The'Gold Coast which works such changes in our Gov-ernors.</p> <p>Lastweekwe reported in our News column, that Dr; Murray had. Mr. Aycnsu arrested for shooting at some pigeons in the front of his own house, and, the doctor himself has ,3 regular daily shooting at them. It is alivay's' an un-pleasant task for us to call into question the action of an official, and it is far more so for us on this occasion to dose when it is the doing of one wllOm we have always" respected and consi-dered to be one of those "officials who command</p>	<p>JAN. '3, 1903.</p> <p>Really what is going on now in these days is most un-English.</p> <p>It is true that "economy is no disgrace," but that economy which makes Government Offices stand in sore need of stationery is most disgrace-ful especially if welook atit at the way, fines (and heavy fines too) are inflicted for every mortal thing, no matter how trifling, it may be. Is Governor Nathan also likely to disappoint us as a Governor? What is there on The Gold Coast which works such changes in our Gov-ernors.</p> <p>Last week. we reported in our News column, that Dr. Murray had Mr. Ayensu arrested for shooting at some pigeons in the front of his own house, and the doctor himself has a regular daily shooting at them. It is always an un-pleasant task for us to call into qdestion the action of an official, and it is far more so for us on this occasion to do so when it is, the doing of one wheat we have always respected and consi-dered to be one of those officials who command our respect. Why did the doctor bag the gentleman arrested? Does he held a monopoly over the birds at the Connor's Hill, or hold a libense for them. It seems that any official Can ask for the arrest of any one he puts into his head to have arrested.</p>
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GOVERNOR NATHAN AND
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that the government means to setup a line of , discrimination between its constituents. Such an idea is not calculated to inspire confidence and loyalty with the people, and the governors who are toying with. segregation are not perhaps aware that they are initiating a policy full of political significance. It is not by a policy. of segregation that Imperial interests are. promoted in West Africa, and British rule consolidated, but by a policy of understanding thenative and getting ' into touch with him and inspiring ' his confidence.—'—La.gos Redord, Dec. 937, . .

THE "ARRIV-AL OF GOVERNOR v

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The "heart-y welcome" accorded Sir 'KluG-HAR- . MAN by the people-pf Sierra Leone on

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THE ARRIVAL OF GOVERNOR KING-HARMAN.

The hearty welcome accorded Sir KING-HAR-MAN by the people of Sierra Leone o'n his return from furlough testifies to the/fact that in some ., way or other Governor KING~HARMAN has ac-L '-

quired a strong hold upon.the affections of the people. It is the prerogative of a governor, and indeed ought to be his first object and duty to acquire such a hold, for it shows more than any-' thing else that he has been administering the government wisely and well in the interest of thegoverncd. The people do not take to a governor for nothing but are attracted by the sympathy which he evinces in their welfare expressed in the practical form of a policy directed to promote the interests of the people. It is

<p>his return from furlough: testifies to the fact that in some way. or other Governor . KING~HARLIAX has acquired a strong hold "WWW?" affections out people. It "is the prerogative 'of a governor, and indeed ought to be his first object and duty to acquire such a hold, for it shows more than any ' .. ' thing else "that he has been administering the government 'wisely and well in the interest of the governed.- The people do not take too. governor for nothing but are attracted by the sympathy which he evinces in their welfare expressed in the practical form of a policy directed to promote the interests of the people. It is * - not given to every governor to inaugurate such a policy, which is dictated by a deep regard for the governed. , This regard is the test which the native applies in the judgment of the governor whose every act and action as</p>	<p>not given to every governor to inaugurate such a policy, which is dictated by a deep regard for the governed. This regard is the test which the native applies in the judgment of the governor whose every act and action as relating to the native of whatever degree is watched with the closest scrutiny, and put either to the governor's credit or to his discredit. In this way a general opinion is formed and the governor who shows by his policy and treatment of the native that he is influenced by an impartial spirit and an honest and genuine desire to do justice to all alike, will not fail to acquire a strong hold in the affection of the people. The greeting accorded .Sir KING-Harman stamps THE GOLD COAST' LEADER". him as a governor of the right stamp, and one whom the people of Sierra Leone believe in and can rely upon, and so his work of administration will be rendered easy as well as effective because it will have co-operative work, the people working with the governor and the governor with the people. No doubt nor discord can enter into such a plan of administration for the simple and sufficient reason that the desires and needs of the people constitute its inspiration and object—Lagos Re-</p>
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cord, Dec. 27'.
 REUTER'S TELEGRAM.
 Dec. 26-Venezuela has agreed to submit the dispute to the Hague Arbitration on condition that the blockade is raised and fleet restored.
 Portion of the Somaliland fierce has proceeded to Obbia, Italy agreeing to facilitate disembarkation.
 \ TO CORRESPONDENTS.
 Intelligent correspondence on matters of interest touching the welfare of the Country is invited.
 ' We do not however hold ourselves responsible for the news or opinions that may be expressed by our corres pondants.
 Anonymous letters will not be attended to, or returned.
 A nom tie-plume or initials should be given if it is desxred that the real name shall not appear in the paper.
 Name and address must accompany all communica-tions as a guarantee of good faith.
 Communications must reach the Office not later than Thursday.
 Rejected communications cannot be

an important part
 in the making of this Country, socially.
 oi:
 "morally" the year is gone with all our
 deeds"
 '(or . misdeeds). shortcomings, or
 ~dereliction of
 duty. ' ' . ' , _ ,
 We may as well consider such.
 thodghts'jas..
 Ethese: As a native of die soil, or
 otherwise,
 {have I done nigduty, according to my
 position,
 influence or knowledge? «j
 Hayeflrserved my- -
 --self, , my' people and Countiyfas' I
 should. -
 'Whatever the answer to these _ may be,
 '1902 has j
 taken it along with it, .to Him whose we
 are,
 and, to whom all in the flesh are
 accountable. - .
 i To day we ,stand' on'fthe threshold of-
 another year—441903.! None of us has
 travel].
 ed this way before. Is it» likely: that if".
 spared, we shall go over the same read
 again
 ~ lean that we) may have todo, or. that
 mdy, be.
 Ç.,,é:tec'ted"of us ?' "Or are we going
 to'retrieve <'
 'leSt' opportunities"? "The' times . are
 he. 9".
 That is'the hry -now. What'are five
 going" to
 do. then. Tradiiig .or 'honcession'ing'
 should
 not and ought n'otto be tle'Vonly
 business we
 should interest ourselvesin, we are
 to'tiee and b
 '..not merely existiwdf we mustrise
 asapeople .-
 we must not be ashamed of' labbur—
 not
 refined labour as it were, but hard,

time we gave manual labour some
 attention,
 andthc other industfies-in the
 Country'claimed '
 _our serious attention. Even those' who'
 are
 engaged in trade are ever crying, Trade is
 'dull, and yet they will not stir, to see the
 phase of things altered.
 ed, and the'finding out of'the "how" will
 solve
 I the problem. The only charge often laid at
 our
 door by those who look at us with the eyes
 of
 twenty centuries' civilization is laziness.
 'We
 rightly resent this. ' As a,people we are not,
 ' but' when we must depend on them
 entirely for
 ' everything and allow ourselves to be
 wholly
 Or are we gong to retrieve <
 How, it may be ask- '
 '3.
 anglicized, lazy people e shall always be .to
 them. Think this outiforxyourself. 'Heaven.
 helps those who help themselves' is a trite
 say- .
 ing, but the truth it enunciatea is as old as
 Methu'selah.' '
 Then the politician: we must ad 't, that
 the political atmosphere of this Coun is
 inimical to the growth of any one who in K
 interest himself in the politics of the
 Country.
 Everything is against him, and he becomes
 at
 once a marked man. Men whose sires have
 fought for their liberty, and they
 themselves

honest
 -_,.l_ abour, doing with all our might
 whatsoelier,
 ' cur'hands: may find t0'do. To think that
 to
 _ be a gentleman, we . must. all be
 clerks, beca'ilse

' "We've have- seenfa School. room. 'is a,
 mistake

"which istastrui'ning 0er CGuntry. _It is
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that the desires and needs of the people
 eon- .

delight in seeking for their rights are able
 to'
 consider a person who does the same thing
 for
 his Country, a disturber in Israel, or impedi-
 ment in their way, one whom they may
 strangle at the least opportunity, forgetting
 probably, that patriotism exists as surely in
 the breast of the black as it does in the
 white
 or in the Asiatic. But He' who defends the'
 cause of the RIGHT, and who defended. the
 cause of their fathers, lives, and will
 defend.

, 'ours, however gloomy and dark. mg?"
 may

, seem, for he is no respecter of . pom-and,
 we may add, no respecter oflracesvldr He.
 made them all. Might may beat; right, ~but
 Truth will prevail. All and everything
 depend
 on ourselves. 'Who does not know that in
 this
 Country things are done (which cannot be
 dreamt of in any of the Colonies under the
 system of- the Crown Colony Policy? Why
 this high ha'ndedness which is displayed in
 everything done by theP-owers that be;
 with
 us? Why this oppression that has
 been'exist:
 mg so long amongst us, and is now riding
 red-
 shot in our midst? Because we are against
 each other, ourselves: because the foxes,
 the
 little foxes, (the .native informants) spoil
 our
 Vine. We cannot tell what amount of
 mischief
 these have done and are doing in the
 Country.

/But we judge no one. They have judged
 and
 are judging themselves by their -own.

Intelligent correspondence on matters of interest .- ~

anglicized, lazy-peopN. shall E
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- d

actions.

But becauseour movements are closely~
watched
and reported on, because 'our doings are
always groasly misrepresented, because
cart-
loads of falsehood are doled out to our dis-
advantage, only to serve as stepping stones
for
them to "rise in the favour of Milord so and
so, or
Sir Knight, or his armourbearer, when
woare not -
actuated by any ill feeling against/any one
or evil
intentions in what we do, but to see that
We

, 'are not unnecessarily trodden
upon,.sball_ we be

disloyal to the Fatherland? We are.»
always
talking of oppression, and finding fault.
with
this and that, what'elsecan it be when we
are: i
so dead to em" own interest, and
audit/traitors to
ourselves and Country. We wish for
ourselves

'a better ("New ") year.

Why cannot thisyear witness a deeper, and
keener interest, in our politics, education,
and
industry ? his true there seems to be a"
policy
existing amodgst us which has for its
watch-
fward, "Down with the blacks" in the
govern~
mental or mercantile world, it is true that
our
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cloud,

..seem._f_9r.heisfioerespectenmm
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 united, and true to ourselves and Country,
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 seek not to win the favour of any one; we
 do not
 ask you to set yourself against any one, we
 ask
 you to herve your day and generation
 better?
 this year, andwtherc are man'gways
 through
 which you can do this. ' A HAPPY, AND
 PROSPEBOUSV NEW YEAR [to all!
 m
 ' soRuTnvEEa.
 Once more the solemn tinkling of the
 midnight
 bell reminds us that we have been
 immerge'd into
 another yeir. 1313;401:- 1902 with all its
 advan-
 tages, glories, blessings, wo'es,
 temptations, happy
 and mournful events has passed may,
 gone, gone
 'for ever and rolled into otmityl. '
 Whatever to."
 did whether moral or immoral is put
 recalling,
 mending or redeeming, -We are not to look
 mourn-
 fully into the.th u. it comes not back again.

stones for'

«'themrto "rise. in the favour of
Milord'so and so, or -'

Sir/Knight, or his'arnnourbeorer, when
weare not - .

, actuated by'any ill feeling againsVany,
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this year, and jfle're are maligways through
which you calledo this. ."A IIA'PPY, 'AND'
PROSPEROUS» NEW- YEAR to all! .
. _ . --~--'l .

sGRuTnsEEIt. "

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be" reminds us that we have been immcr'gé'd into
another yoir. Thfibjyeorrrmm with all» its advantages, -
glories, blessings, wo'es, 'temptations, happy _
and neonatal. events has pouodgxowo'y, gone, {one '
'for ever and "rolled- iutq eternityl. "'Whlttflilr-xy)" -
did whether moral 1 or immoral ' is post recalling,

- menkling'br, redeemingg -We'

oro'n'o't'dlooli mourn-

t

' fully into "thoplut u, it comes not- back again.

<p>19</p>	<p>31»; \' .\;. '. his eyes towards the town, he perceiv " Oh my! ' exclaimed. ' means of producing this big fire. For the next\ ' made a fine hau1, . hp .4: B'ut though we are not to look into what has been perpetrated and gone, it is not required of us to- continually sit unconcerned in this chronic state O'f1uactivity.,~ deav our to lead s'uch lives that each succeeding day may seem better and more profitable to us indivi- dually and to our generation. . . We have surely left undone those things which we ought to have done both in our religious, poli- tic'al and social duties. And' on the other hand we have not left undone such onormities as indulging in petty prejudices, willingly and unwillingly be- traying day by day our nation, in exhibiting mark- ed and perpetual indifference towards our political . , interests, and' 1n engaginng profitless sp1tefulness ' and woful cupidity.</p>	<p>4. ' But though we are not to look into. what has been perpetrated and gone, it is not required of us ' . to-continually sit unconcerned in this chronic state of inactivity.,. But this much admonishes us to en- deavour to lead such lives that each succeeding day may seem better and, more profitable to us indivi dually and to our generation. ,We have surely'left undone those things which we ought to have done both in our religious, poli- tical and social duties. And 'on the other hand we have not left' undone'such enormities as indulging in petty prejudices, willingly and unwillingly be- traying day by day our nation, in exhibiting marl:- ed and perpetual indifference towardsour political interests. and in engaginng profitless spitefnlness and woful cupidity. Hc'w many were' with us in the field during the past year's bivouacking we cannot estimate, but the fact certainly brings to our remembrance, the re- collections of many dear ones whose company and faces we shall never have thé pleasure of sharing and seeing on earth; for since the divine edict went out—"Dust thou' art, and unto dust shalt</p>
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For it is an order that must pass on all men.

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the year. may be able to ejaculate conscientiously "I have done what I could during the past year."

And now, dear reader, I wish you a happy and

prosperous New Year.
Yours faithfully,—A'roo.

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Tradition tells us, that in the days of the Fathers, a plain honest citizen of this romantic

town, a fisherman by profession, being desirous to

smoke at a rather late hour, 'and not having the

necessary to light his pipe, went out in search of a

spark of fire. After a great deal of inconvenience

and trouble, he succeeded in obtaining a spark of

fire with which he lighted his pipe, and commenced

smoking away furiously. kWhilst "" enjoying his

pleasant puffs in that midnight hour, he reflected

on the trouble he had. undergone, for the 'little

spark of fire, and at a last burst out. in a soliloquy1

\ing tone, "My word what a world of trouble I have

gone through at this very late hour for this little

spark of fire. That woman at the other end of the

street,\to whose house I at last resorted,-

my purpose for, get the \vsry least, the next two

, weeks' to come." SO as g, be picked up the.

spark of are, and carefully .

' of cloth, hid it for better sec ty. in the thatch-

roof of his shanty?!- He win new erfectly satisfied

' with h1mself , and with s- light hesit, proceeded to

the beacluwlanchd his canoe, and p ddled'ofi' to-

turning

exorcise' his vocation. . In afsw_sl1ninu

what

'-'appeared to him "at the tinfitto be a big n.fire

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"This little spark of mine has beent

twelve months to come, there will be no' necessity

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their indebtednssd to me, by presenting me ivith a

rustic little undo dud a set 0! note!"

Without '

giving the subject any further- attsntjon, he calmly '

continua 111.111.1111»; on da Mme... when, having

me with a

tights little' guarded rest «if nets." Without giving the subject any'fustbcr attention, he calmly

continued "chairing." day-break, when, having

made a fine haul, ghp. ' | dled towards the shore.

On nearing the 'shore, e was Burprised to perceive '

nearly the' while population of the town assembled

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THE GOLD COAST LEADER.

they had assembled there to do him honour for his

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LETTERS TO THE. EDITOR.

[We regret that many of the letters we publish have had

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Those present being the King of Anamaboe
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Dear Sir—In your issue of the 13th December last I find Mr. Champion Writing in reply to my letter of the 15th November last. I must say Mr.

Champion is Dixcove's greatest enemy. I am};

'pure- Dixcovian, born at-Dixcove and I would be

silly to run my Countrydown if all what I said was

untrue. 'May I personally and on behalf of the

parents be satisfied that the present condition of

'the Day School is satisfactory? I repeat again

that the present condition' of the Dixcove, Singing

Band, . Sunday and Day Schools is very shameful

and pitiful. Mr. Champion may be quite a stranger

otherwise 'in comparing the condition of the past

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JAN. 3, 1903.

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I am, in readiness

Dec. 1902. J. P. Mensah.

Dear Mr. Editor 2— May I understand that
the 'Gold
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to collapse through want of attention and
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Proprietors—The Aborigines Rights
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of this town, and that up to the present
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things._ Many thanks for the space allowed. ' Yours truly,---'A~ Br ensues. Cape Coast, 2nd. Dec. 1902. AXIM IMPROVEMENT. Dear Editors—Permit me a short space in your valuable columns for the insertion of my observation on Axim improvements. Going along the Street the other day, I was forcibly impressed with the fact that Axim bids fair to be the third important town in this colony. Notably among the so many things, which gave me this impression is, my being ushered into a rather "neatly fitted Store of medicines properly known, or called "Druggist Shop" situated in Upper Town, facing Mr. R. T. Arthur's big house. , "J Upon enquiry, I was informed, that this store has been opened and kept by our friend and citizen Mr. T. Han sen Quao, recently certificated dispenser in the public service, but who he's now resigning—e—T. Foverment and obtained a Druggist License to sell drugs in Axim. Taking many things into consideration. it would most reasonably appear to even the most superficial observer that this druggist shop is one of the best bonuses that Axim

at the very foundation of stability and success for any true society; minus which no society, no matter how influential or influential the members thereof. is worthy of a name. A glowing and high sounding name there may

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_can ever enjoy, and will, in time if well patronized. be a

source of incalculable blessing to the Cnmmitv I sav it would beaboon ands blessing, taking the fact of a town like Axim teeming .with so many hundreds of livias the European element not exempted, with only one medical man to attend them, and that one a public oilicer, with so many restrictions in connection with his service to the community at large. ~

If therefore, there is a dmggist shop at hand, where a simple turn at the 'corner will bring you roadily what little stuff you need to patch up a cut. alleviate a pain and obtain relief sooner from whatever suffering you may be smarting under. Then also is the fact that the manager and dispenser of these drugs we all know well, that ho is thoroughly qualified for the place, and one that one can place reliable faith in. as we have known him during his official career his well regulated habits. his untiring zeal and careful attention to his work, his rather reticent and resrvd manners which served on the contrarv to proclaimhis ability and' trustworthiness. and endeared him to the hearts of many whgnhad to command his ser~ vices, therefore, I say, these facts should guarantee the confidence, court the attention of the public to this well-timed store, and support the assertion.

~ Yours t1'11ly,---'A~ Bv- srn 1111-11.

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I do not know whether, or nd't" Mr. Quao intends to advertise the different kinds of drugs in his store,— but whatever he may do, this much I know, that the store contains an that Axim may want for the present, and the

' arrangements and qualities of the medicines are suillci-

ent advertisement to all. "Come and see and be

It

satisfied." ' 7"" '

\ Thanking you for the space allowed. I -l Yours tmlv,'

Axisn, Nov. 1902. 10.10 Tristain.

W" WNW MW Wm M s' Ann~mflwn~vn A

Printed at the office of the Cow 06m Lit/man,

.Sslt Pond Road, Cape Coast, by J. -R. GRANT.

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Appendix B

B.1 Original Images before processing was applied

lication should be addressed to the Editor.
Business Communications and remittances either in Cheques or Post Office Orders should be sent to the Manager, "Gold Coast Leader" Office, Saltpond Road, Cape Coast, West Africa.
For copies of the paper please apply to the Stores of JAMES E. ARTHUR, at Chapel Square, Tutin Street.

ADVERTISEMENTS

Messrs. McLaren Bros. and Company

of Manchester and the Gold Coast are prepared to let their Well and complete furnished Rooms (modern style) at their Houses in Sekondi,

Mr. Bernard Hicks

79 Mark Lane, London, has the pleasure to inform Clients on the Coast that he has been able to make arrangements with Messrs.

Mathews Wrightson & Co.

of 32 Great St. Helens, London E. C., a Firm of acknowledged standing and reputation, to take over the business carried on by him for some years past.

This Firm having a much larger Capital, and a very efficient staff of assistants, available for the working of their business, Customers will undoubtedly reap greater advantages than he has hitherto been able to offer, especially as regards the prompt shipments of Goods ordered.

As the new business will remain under his management any indents Clients may be pleased to favour the Firm will as heretofore receive the best and personal attention.

The inhabitants of the Market place and its vicinity are removing in view of the Victoria Park which will soon be in course of erection. The pity is the inadequate sums which are being paid to house owners, not sufficient, all round, for the purchase of ground much more for building.

There was a ball at the Commissariat House on the night of the 30th ult. which from all appearance, came off nicely.

We regret to report the death of J. P. B. Orleans which took place at Accra on the 31st ult.

A correspondent writing from Obuasi reports a serious conflagration there that entailed heavy losses, besides laying desolate many buildings.

Another correspondent writes from Sekondi, who after remarking on an unfulfilled promise of the Sekondi Light-rage and Hotel Company to endow the hotel there with a Managersess, complains bitterly over the over-grown state of the

Figure B1: Evaluation image 1 - The Gold Coast Leader

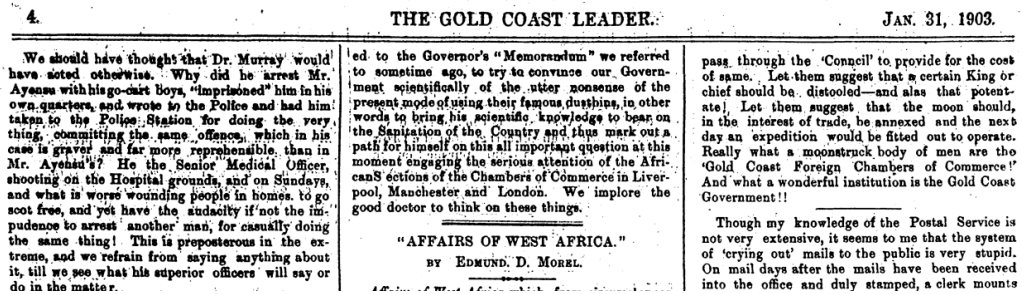


Figure B2: Evaluation image 2 - The Gold Coast Leader

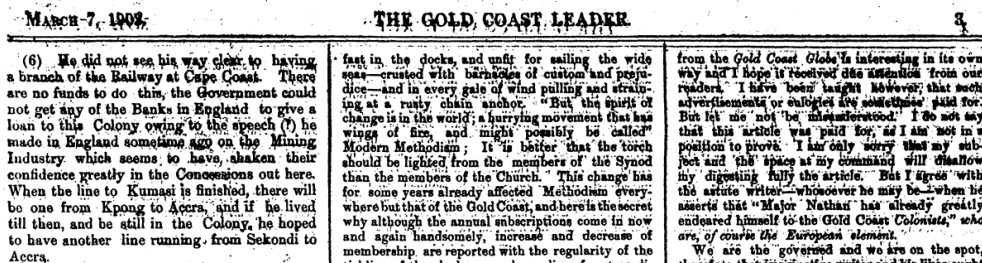


Figure B3: Evaluation image 3 - The Gold Coast Leader

The Gold Coast Leader.



VOL. XIII.
No. 625.

CAPE COAST, WEST AFRICA. SATURDAY, AUGUST 1, 1914.

Price 3d
Including postage 4d

THE GOLD COAST LEADER.

PUBLISHED ON SATURDAYS.
A weekly journal devoted to the interest and welfare of the Country and Race.
Offices:—Elmina Road, Cape Coast, West Africa.

TERMS OF SUBSCRIPTIONS.
(Payable in advance.)

S. P. G. Grammar School,

CAPE COAST CASTLE.
HEAD MASTER—REV. ROBERT FISHER M.A., CAMBRIDGE.
ASSURED BY A CAPABLE STAFF.
This School aims at imparting a thorough education in all elementary subjects together with as many of the following as seem suitable in each case:—
Latin Algebra Short-hand
Greek Euclid Book-keeping
French Mensuration Hygiene
Pencil Physiology English literature
and especially Religious Teaching.
Boys can be prepared for special examinations, such as the

Bank of British West Africa Ltd.

ESTABLISHED 1894.
Bankers to the Governments of the Colonies of the Gambia, Sierra Leone, the Gold Coast and Nigeria, to the Imperial Government in Sierra Leone.
HEAD OFFICE: 17 & 18, Leadenhall St, London E. C.
Telegraphic & Cable address:—"Afrigio" London.
LIVERPOOL OFFICE: 14, Castile Street
Telegraphic & Cable address:—"Bullion", Liverpool
HAMBURG OFFICE: Ness 1.
Telegraphic & Cable Address:—"Bullion", Hamburg.

Figure B6: Evaluation image 6 - The Gold Coast Leader

Established in 1880.
Telegraphic Address:—"JUNIOR."
Souza Jr., & Dias,
21, Vasco da Gama Street,
MOMBASA.
AND AT
NAIROBI, ENTEBBE, ZANZIBAR
AND
GERMAN EAST AFRICA,
Tailors and Shoe Manufacturers,
General Merchants,
Commission Agents.
IMPORTERS of:—Wines, Spirits, Ales, Stouts, Tobacco of various kinds,—Craven Mixture, Toilet Requisites, Patent Medicines, Crockery, Cutlery, Enamelled-ware, Stationery, Cricket and Tennis requisites, Bicycles, etc., and by every mail Fresh Provisions.

THE ENGLISH STORES,

GENERAL IMPORT AND EXPORT MERCHANTS,
Forwarding & Commission Agents,
25, VASCO DE GAMA STREET,
(OPPOSITE THE MOMBASA CLUB),
MOMBASA.

All English Goods retailed at English Prices.
LADIES AND GENTLEMEN'S OUTFITTERS.
Buyers of Ivory, Rubber, Gum, Wax, Ground nuts, Fibres, Cotton and other produce, &c., in large or small quantities.
The Antwerp East African Trading Co., Ltd.
J. H. DRAKE,
Chief Agent.

Figure B7: Evaluation image 7 - The African Standard

Uganda Railway.

NOTICE.

TIME TABLE ALTERATIONS.

Public notice is hereby given that that the present train and steamer timings will be altered with effect from 1st July.

New time tables with full particulars will shortly be issued.

By Order,

A. E. CRUICKSHANK,
Traffic Manager.

Traffic Manager's Office,
Nairobi, 11th June, 1904.

The War in the Far East.

Reuter.

LONDON, JUNE 18.—A despatch from General Sheequeg timed early morning of the 15th describes the battle of Wafengkan and says that a superior force of the Japanese on the 15th turned his right flank and compelled him to retreat northwards by three roads, his losses were heavy, the Japanese fire wiped out two batteries and 13 out of 16 guns were destroyed and abandoned.

LONDON, JUNE 18.—General Bobrikoff is dead.

LONDON, JUNE 18.—Admiral Kamimura's fleet started on the 15th in pursuit of Skrydloff's squadron.

LONDON, JUNE 18.—It is understood that there are marked dissensions in the Cabinet

STRAY JOTTINGS.

Nairobi, June 22.

The incident connected with the abrupt resignation of Sir Charles Elliot as Commissioner is one which discloses the extent of over-control exercised by the Foreign Office authorities upon their Agents abroad. In this case the attitude of the Commissioner is highly praiseworthy. Land trusts may help to avert the evils of monopolies who are concerned in the monopoly, but are detrimental both to the interests of the country and to the public at large.

Sprens are shortly to take place at the Race Course, promoted by non-members of the Turf Club. The proceeds of same are to be applied to some non-official fund. It is a move in the right direction.

Railway subordinates are enjoined to have the grass in their compounds cut. Failure to comply with the above order will entail the

The Latest Cables.

Reuter.

LONDON, JUNE 18.—Earl Percy has announced that the transfer of Zanzibar and Pemba to the Colonial Office is not yet decided.

LONDON, JUNE 18.—A Frenchman named Thery won the Gordon Baggott Troas while Jenatry a German was second, none of the Englishmen had a place and nobody was hurt.

LONDON, JUNE 20.—The following is the result of the Market Harborough election:—
Mr. Philip Stanhope Liberal 7843 votes.
Mr. Dixon Conservative 6100
The position is unchanged.

LONDON, JUNE 20.—Mr. J. A. Fyler, M.P. (Con.) has resigned.

just as Macdonald was collecting his troops and stores for a start. No incident of Imperial expansion has been so extensively and warmly debated as this. There are Uganda cliques. Nearly every pro-consul who has ever reigned here has his partisans and controversies about the various stages of the "settlement" of the country are numerous as the direct consequence of the great difficulty and prolongation of the operations. Macdonald has been more bitterly and persistently attacked—"criticised" is too weak a word—than any. Being an Aberdonian, he has taken his unfair punishment like a man. But he does not lack advocates, and of these Major Austin, who had worked with him long before Uganda days, is one of the most loyal, and at the same time most convincing. The Sudanese who mutinied were the one evil legacy left to Uganda by Sir Frederic Lugard. They were the dervillets of the forces of Emin Pasha and Sir Henry Stanley, and in the main not very good Sudanese, though a certain proportion were excellent. They had served a great purpose when first introduced into Uganda and scattered in garrisons over a wide country. When Macdonald arrived from England in 1897 they were ripe for mutiny. The immediate cause was undoubtedly overwork. The King Mwanga had recently fled from the capital and raised a revolt. There had been a great deal of fighting and

ways unique. The reader can follow with ease the whole of a somewhat complicated series of marches and fights. As is well known, the rebels ultimately evacuated Lubya's, and fled across the Nile, whither they had to be pursued, Macdonald had to undertake at the same time the suppression of the revolting Mahomedan natives under Mwanga, and he had a hard job of it in the seven months that elapsed before he was able to piece together his expedition again and start for the north. The ability displayed by the leaders of the Sudanese was indisputable. For instance, they evacuated Lubya's with as much ease as if there had been no investing force within miles. Their intention was known beforehand, as Major Austin shows:—
"A deserter told us the mutineers were meditating an attempt to break out by water, utilising the snow for this purpose to cross to a promontory about two miles across the lake from their present fort at Lubya's. The Sudanese, he said, still possessed from 20 to 30 rounds of ammunition per man, and had strongly loopholed their fort, which they regarded as impregnable. One tier of loopholes was right down on the ground on a level with the top on the ditch, the men lying in regular excavated pits, in which it was impossible that they should be hit." He laughingly added:— "You may be able to beat us in the open, but don't make an attempt to storm the

certain from what he saw of the Sobat region in the following year that Macdonald would never have got through the floods and swamps in the rainy season.
The author's story of the doings of his own column are of course, absolutely authentic and add much to our knowledge of country he traversed and its inhabitants, especially the magnificent but unreliable Turkana, who gave him much trouble on the way back. One finds that the actual hardships suffered by the Austin column before their arrival at Rudolf do not read so distressingly in the author's retrospect as they did in the newspaper stories of the time. But he had not his sorrows to seek, and it is plain from his narrative that if "occupation" of the whole of Uganda is ever decided upon it will go hand in hand with the Turkana, perhaps also with the troops that are sent after them. Major Austin quotes with pride a certificate of the good behaviour of his men he got from one of the chiefs he came across. There is a very little of the information he procured that can be conveyed within the limits of a review. Only we may quote as a specimen of his style (which is not attractive) the following sketch:—
"The Swabils that afternoon brought round the chief of the Ngamata, Turkana—Eriopul Kiapa by name—to make friends with us. He was an enormously fat man,

Figure B9: Evaluation image 9 - The African Standard

Established in 1880.

SOUZA JUNIOR, & DIAS,

Zanzibar, & German East Africa,
Mombasa, Nairobi & Entebbe.

GENERAL MERCHANTS

AND
COMMISSION AGENTS.

Tailors and Shoe Manufacturers.

Importers of

Provisions, Wines, Liqueurs,

&c.

Famous Whisky Antiquary.

PRICES MODERATE.

Cablegrams: "STORES, MOMBASA."

EAST AFRICA STORES,

TAILORS AND GENERAL DEALERS.

(NEXT TO MOMBASA CLUB.)

THE MOMBASA STORES.

CROSSE AND BLACKWELL'S PROVISIONS A SPECIALITY.

REX PORT. AMMONTILLADO SHERRY.

Begg's Royal Whisky.

ALL KINDS OF

FANCY ARTICLES SUITABLE FOR PRESENTS.

Patent Medicines and Tabloids.

BOOTS, SHOES, SLIPPERS, Etc.

A LARGE ASSORTMENT ALWAYS ON HAND.

Rifles, Fowling Pieces, Ammunition at the Cheapest rates.

PRICE LISTS ON APPLICATION.

THE ENGLISH STORES,

25, YASCO DE GAMA STREET,

(OPPOSITE THE ENGLISH CLUB.)

MOMBASA.

All English Goods at English Prices.

Specialities:—Ladies Clothing, Underclothing, Lingerie, Millinery, Haberdashery, Hosiery, Boots, Shoes, Slippers, and Toilet Requisites.

GENTLEMEN'S OUTFITTERS.

Provisions, Confectionery, Household requisites, Cigars (Havana and Continental), Tobacco, Cigarettes, Pipes, &c., Double and Single Bedsteads, Hair and Wool Mattresses, &c., Guns and Ammunition, Tools and Ironmongery, Medicines, &c.

Buyers of Ivory, Rubber, Gum, Wax, &c., in large or small quantities.

The Antwerp East African Trading Co., Ltd.

J. H. DRAKE,

Chief Agent.

Figure B10: Evaluation image 10 - The African Standard

<p>providing a reduction in Salt tax and extending abatements of Income tax, shows a surplus of £948,700.</p>	<p>THE ANTIQUARY.</p>	<p>time, and all can give of this coin munificently. Given a commanding personality in the teacher, or an influential or interested chief, there is no limit to the service of this type that can be got from the people. Schools are now entirely built by the people; we have more than seventy of them. Most of these are built of reeds and stakes, are plastered and thatched, and are seated in a rough fashion. But the total value of a good school of this type is not more than £3. Recently, however, brick schools are being erected by the people. Last year five schools and a church were built, but this year more than double that number are promised. These are valuable property, a continual lesson to the people, and are the pride and delight of the builders. In many another form this contribution of free labour expresses itself. Month by month hundreds of messengers carry little loads and letters to and from the large network of schools without pay. Roads are always being made or kept in repair, station grounds are swept, and school-houses are cleaned and smeared every week without payment. At Hôta, we tried to engage four women. But no one would take up the work, it was too heavy, and we had to fall back on free labour. Now schools and church are regularly cleaned, without a grudge and without cost.</p>
<p>LONDON, MARCH 20.—The election for Rye to replace Mr. Brookfield, Conservative, who has been appointed Consul for Montevideo has resulted in the election of Mr. Hitchinson, Liberal, by 4910 Votes to 4376 given for Mr. Boyle, Unionist.</p>	<p>At table strewn with books I saw him first; His mind and eye alike, on knowledge bent; Most eagerly he moved from page to page; Then paused awhile, as if at least content.</p>	<p>This is but a list of businesses. Gradually</p>
<p>LONDON, MARCH 20.—The American Senate have sanctioned the Panama Treaty mentioned in Reuters of the 4th instant.</p>	<p>But then the quest was once again renewed, Again he scanned each closely printed page; A small sprank figure, full of life and fire; Seeking the treasure of a long-passeff age.</p>	<p>Quite buried in a pile of musty books.</p>
<p>LONDON, MARCH 20.—A serious revolution of nationalists has arisen in Uruguay.</p>	<p>I thought with shame upon my idle state; Of why those tones had never chained my looks; Then left him there alone—a big red ant; Quite buried in a pile of musty books.</p>	<p>Nairobi, 1-3-03. B. E.</p>
<p>LONDON, MARCH 20.—In a letter to the Times from the Bishop of Uganda, the Bishops strongly condemn Sir Harry Johnston's proposal in favour of recruiting Trans-Zambesian Natives for the Transvaal Mines.</p>	<p>SELF SUPPORT IN NONGONILAND.</p>	<p>In the earlier days of the Mission the</p>
<p>LONDON, MARCH 20.—Reuter's Agent telegraphs from Bloemfontein that there is extreme dissatisfaction in the Army garrisoned in the new Colonies owing to the fact that the majority of the troops as well as many officers and their wives are still living in tents. The officers complain bitterly of the class of recruits that are being sent out, many of them are mere boys and are scoffed at openly by the Dutch.</p>	<p>In the earlier days of the Mission the</p>	<p></p>
<p>LONDON, MARCH 20.—In consequence of the striking victories of the opposition at</p>	<p></p>	<p></p>

Figure B11: Evaluation image 11 - The African Standard

<p>THE AFRICAN STANDARD.</p>		<p>SATURDAY, JANUARY 7, 1905.</p>
<p>Unsurpassed and Unsurpassable. Choicest Quality. Lowest Price.</p> <p>LIPTON'S WORLD RENOWNED TEAS.</p> <p>PURE, FRAGRANT, REFRESHING.</p> <p>The Joy of Every Housekeeper.</p> <p>Obtainable at all Dealers.</p>	<p>THE LAND POLICY.</p>	<p><i>Chilies</i>.—The market is steady. In sales this week there were 60 bags of Natal and offered and sold. Fair bright red and yellowish at 48/-, dark red at 38/-, and mixed yellow and red, some perished at 37/-. 240 bags of East Coast Africa were bought in at 45/- for fair red, and at 37/- for mixed yellow part perished. 53 bales of Zanzibar offered and bought in at 50/-. <i>Capiscums</i> were only represented by 1 bale of Natal which, however, did not change hands. <i>Gum Animi</i>.—In sales yesterday 210 pkgs. of Zanzibar was offered and 52 sold. Sorts—strong, fair, bold, pale and ambery, with part small £9/10/- to £9/12/6, ditto part rough and red £8/10/-, mostly weak fair bold with part small £5/5/-, weak medium and small to fair clean £5 per cwt., Bean and pea strong pale £7 per cwt., pickings clean reddish with part medium bold 35/-, fair clean small to medium 20/- to 25/-, low dark and woody part ordinary 4/- to 10/-. Siftings fair pale clean 40/-, dull to specky 30/- to 35/-, inferior 19/6 to 25/- per cwt. Copal character clean pale with little reddish 75/- per cwt. <i>Hemp</i>.—Africa still continues conspicuous by its absence consequently prices are nominal. In sales this week there were 22 bales of Mauritius offered, and 3 sold at £31/5/- per ton subject. We quote Mauritius on the spot good white at 33/-, fair 30/- and common 27/- per cwt.</p>
<p>(Contributed by an Old Selector.)</p>	<p>A few words on the Land Policy of British East Africa. Thousands of years ago in the Land of Canaan the herdsmen of Abraham, the pioneer squatter, and Lot the first selector, had a serious quarrel, probably about grazing rights, an early indication of the importance of the land question to humanity. Since then in every clime, and in every age mankind has witnessed the same struggle, sometimes accentuated by tragic episodes like those of the Gracchi in Rome. The contest for the land shook the Roman Republic to its centre in various periods. It simmered throughout the middle ages and in modern times it has been the cause of many a political revolution and upheaval. The great self-governing Colonies of Great Britain have not been free from agrarian agitation, notably in New South Wales where free selection before survey was the watchword of the people. The principle so strenuously advocated by the late Sir John Robertson was</p>	<p></p>

Figure B12: Evaluation image 12 - The African Standard

Pertinent to our last week's culling from *Truth* touching a certain correspondence from a Mr. Ampiah of Frankfort Chambers & Co, Cape Coast, we again cull the following from the same paper of the 4th. December last, our comment on which we once more reserve:—

"It seems that the letter from a Mr. Ampiah to a London Tradesman recently published in *Truth* is a sample of a very common class of communications from that part of the world. The business notions of the nigger trader are evidently somewhat chaotic. One of them writes to a correspondent whom he addresses as a "book seller and news Agent."

"Your name was highly recommended to me by a certain friend of mine that you are the best wool manufacturing, so that I want your Samples, Catalogue & Co.

"In another case two ingenuous youths wrote that they had heard some black men were wanted to learn the book trade, and proposed to come on receipt of Tickets for second class saloon passage to England"

With sincere regret we announce the quite untimely death of Miss Joana Clarisa Thompson which occurred on the last day of the past year. She was the affectionate daughter of Mr. J. F. Thompson of the Treasury and niece of Rev. Egyir and Barrister Kofi Asaah. For sometime she had been ailing from some malady which certainly never suggested the anticipation of this sad occurrence. For a girl of such amiable and respectful disposition to be cut off in the flower of her age is afflicting indeed and beyond what the human pen could describe. To the bereaved family we tender our sympathy—Sincere and unalloyed.

Kwodwo Mensah, a clever young Bricklayer, brother of Mr. J. J. Kofi of *Abovini* died suddenly on the 1st inst. It appears he was slightly indisposed

How many were with us in the field during the past year's bivouacking we cannot estimate, but the fact certainly brings to our remembrance, the recollections of many dear ones whose company and faces we shall never have the pleasure of sharing and seeing on earth; for since the divine edict went out—"Dust thou art, and unto dust shalt thou return," it has had its vigorous operation, making no distinction between great and small, rich and poor, the man of many surroundings and the orphan—For it is an order that must pass on all men.

Whatever the year 1903 has in store for us is a mystery known only to the Great and merciful Creator, the Steersman of our destinies. But we must surely be vigilant as become men waiting for unexpected event, strange apparitions and unpleasant occurrences, especially in this Gold Coast of ours, the land of strange and unexpected visions.

At the onset we must wake up from our long and miserable lethargy, if we must achieve some good reforms this year. Our fathers in their time played their part well and we should for shame play our part well and as much as lies in our ability, so that we might leave foot-prints worthy of the treading of our immediate successors, and at the end of the year may be able to ejaculate conscientiously "I have done what I could during the past year."

And now, dear reader, I wish you a happy and prosperous New Year.

Yours faithfully,—Aroo.

which the Anamaboe correspondence attempts to hide not thinking that the public could judge otherwise by the portion of the correspondent which runs as follows:—"The absence unavoidable or otherwise, of the majority, however had a tendency to complicate matters but those present after much consideration arrived at a resolution."

Those present being the King of Anamaboe and Chief of Ayeldu insufficient to form a quorum were indeed complicated in the absence of the majority and arrived at no resolution though the correspondent alluded to one in his last paragraph—

The Ayeldu chief unfortunately for the correspondent let out the names of the King of Anamaboe and himself as the inventors of the Otsir convention, at Cromantine and made matters more suspicious that King Otsibu's messengers were waiting for him at Ayeldu to hear the glad tidings which is the resolution of the Borbor Kings against the King of Abura on their behalf *Re.* his claim of the Assin land; hence it was a disappointment to them in consequence of the non-attendance of the Borbor Kings, yet they shall meet again.

Both the correspondent and the Ayeldu chief were cunning to omit mentioning the valuable hints they had that the D. C. at Salt Pond had been ordered to retire them at once, the actual cause that hurried up the closing of the convention. If the correspondent still insist that some resolution was arrived at, circumstances will prove such resolution to have been made between the heels and the toes of the King and chief and it ended in vagaries of sounds rocketing over the tops of gigantic shading

Figure B14: Evaluation Image 14 – The Gold Coast Leader

ADVERTISEMENTS.

Mr. Bernard Hicks

79 Mark Lane, London, has the pleasure to inform Clients on the Coast that he has been able to make arrangements with Messrs.

Mathews Wrightson & Co.

of 32 Great St. Helens, London E. C., a Firm of acknowledged standing and reputation, to take over the business carried on by him for some years past.

This Firm having a much larger Capital, and a very efficient staff of assistants, available for the working of their business, Customers will undoubtedly reap greater advantages than he has hitherto been able to offer, especially as regards the prompt shipments of Goods ordered.

As the new business will remain under his management any indents Clients may be pleased to favour the Firm will as heretofore receive his best and personal attention.

Thanking you for your esteemed commands in the past and trusting you may do a large and mutually satisfactory trade with the Firm in the future and soliciting the continuance of same.

J. D. AAKU,—Agent.

To be let one Large Store in De Graff's Hall formerly known as Holdbrook's Store. For particulars apply to Mr. J. J. Kwofi, Jerusalem Street, Cape Coast.

time. It is a pity the Court of Justice should be subjected to such indignity.

Number of deaths for the week is registered at 9.

MOVEMENTS OF STEAMERS.

OUTWARDS.

Due at Cape Coast.		
Warri	Opobo service	Jan. 8
Accra	Brass service	" 11
Burutu	Lagos Express service	" 12
Egwanga	Opobo service	" 22
Coomassie	Brass service	" 25
Volta	S. W. service	" 27
Melita Bohlen	G. C. Express service	" 16
Eleo. Woermann	Accel. Main-Line	" 27

HOMEWARDS.

Adolph Woermann	Accel. Mail line	Jan. 11
Bonny	Brass service	" 15
Jebba	Lagos Express service	" 16
Axim	Opobo service	" 18
Tarquah	South Coast Express service	" 23
Bathurst	Brass service	" 29

ELMINA.

(FROM OUR CORRESPONDENT)

Sister MaCarthy of the Roman Catholic Mission died here on the 28th December last.

Mr. Justice Stanley Morgan arrived in town from Cape Coast on the 29th of December last to preside over the Civil Assize which commenced on the following day (30th Dec.) There were nearly 25 Cases on the hearing list. From what we find, His Honour was not intended for a permanent stay here as he is to sit at Cape Coast and Saltpond as well.

Figure B15: Evaluation Image 15 – The Gold Coast Leader

The Gold Coast Leader.

VOL. 1.
No. 28.

CAPE COAST, SATURDAY, JANUARY 3, 1903.

Price 3d.
Including postage 4d.

THE GOLD COAST LEADER.
PUBLISHED ON SATURDAYS.

TERMS OF SUBSCRIPTIONS.
(Payable in advance.)

	Cape Coast.	Abroad.
Annual	10/6	14/6
Half Year	5/6	7/6
Quarter	3/-	4/-

ADVERTISING SCALE.

Advertisements should be sent to the Office at Saltpond Road, at least three days before the day of publication.

Twelve lines and under	5/-
Additional line	2/6
Birth, Death or Marriage	2/6

Special arrangements can be made for advertisements for longer periods.

All Communications intended for publication should be addressed to the Editor. Business Communications and remittances either in Cheques or Post Office Orders should be sent to the Manager, "Gold Coast Leader" Office, Saltpond Road, Cape Coast, West Africa.

For copies of the paper please apply to the Stores of JAMES E. ARTHUR, at Chapel Square, Latint Street.

ADVERTISEMENTS.

Messrs. McLaren Bros. and Company

of Manchester and the Gold Coast are prepared to let their well and complete furnished Rooms (modern style) at their Houses at Sekondi, viz. "Disbury," "African," and "Victoria" situate at the Market and Poasia Road. Cooks and cooking utensils at hand.

For Particulars apply to the Cape Coast, Sekondi and Axim Agencies, and Head office at 2 Mount Street, Manchester.

H. REGINALD AMONOO,
Agent.

Cape Coast, Nov. 5.

PUBLIC NOTICE.

I the undersigned hereby give the public this Notice that I own all that piece or parcel of land situate and being between Kortorkraha and Aboom and bounded on one side by the road leading to Kwabotchay, a portion of which is included in the public road, on one side by the road leading to Aboom Wells, a portion of which also is included in the public road, which separates the property from Brown and Pietersen's and B. J. Kwofie's plantations, on one side by J. P. Brown's land and on one side by James Fry's land and the Hausa Cemetery—which said piece or parcel of land was purchased 28 years ago by the late William Martin of Cape Coast directly from the late Head Chief Quasie Attah of Cape Coast with the knowledge consent and concurrence of his Headmen and Councilors in due form of conveyance which I now hold; and that any person or persons found trespassing on the said property or any part or parts thereof (except such adjoining portions on two sides which now form parts of public roads) will be dealt with according to LAW.

her
CHARLOTTE x MARTIN.
mark

Cape Coast, 3rd December 1902.
Writer and witness to mark,
BANNERMAN MARTIN.

NOTICE.

We the undersigned for ourselves and on behalf of the inhabitants of the village of Aguna in the District of Elmina do hereby state for the information of the Public in general that as Kwamina Assankumah has been deposed he is no longer the Chief of that village.

Kofi Essiadoo has been installed in his stead and all communications in reference to that village or any lands belonging thereto are to be made to him as Chief in authority in that village.

Dated at Cape Coast this 5th day of December 1902.

their
KOBNAH BUCUMPM x
QUOW ANAN x
KWESI ASSANKUMAH x

Witness to marks & writer of names, marks
T. A. Davis,
Awasankur St.,
Cape Coast.

Mr. Bernard Hicks

79 Mark Lane, London, has the pleasure to inform Clients on the Coast that he has been able to make arrangements with Messrs.

Mathews Wrightson & Co.

of 22 Great St. Helens, London E. C., a Firm of acknowledged standing and reputation, to take over the business carried on by him for some years past.

This Firm having a much larger Capital, and a very efficient staff of assistants, available for the working of their business. Customers will undoubtedly reap greater advantages than he has hitherto been able to offer, especially as regards the prompt shipment of Goods ordered. As the new business will remain under his management any in-lent Clients may be pleased to favour the Firm will as heretofore receive his best and personal attention.

Thinking you for your esteemed commands in the past and trusting you may do a large and mutually satisfactory trade with the Firm in the future and soliciting the continuance of same.

J. D. AAKU, —Agent.

A Professional Book-keeper many years connection, desires employment at Cape Coast or elsewhere. For Salary &c., apply April 1902 Editor.

TO ALL TO WHOM IT MAY CONCERN!

The public may please take notice that in accordance with the Documents and papers, prohibiting our Executorship to the Estate of the late James Quasie of Kwaman and Saltpond who died on the 3rd Sept. 1901 at the former place, dated on the 8th April 1902 (which bears stamping date of 5th May 1902 No. 1698/02.) Having been given to us the undersigned by the undermentioned parties members of the relatives of the above named deceased, namely:—Yaw Nkun, Amba Kuma, Ekua Osam, Ambu Ekuwa, Ekua Aframba and Kwa Appiah of whose letter of administration were duly granted to us by the Divisional Court at Cape Coast since the 17th day of December 1901. We now give public notice that we are no more Executors and Administrators to the Estate of the above named deceased. In future all letters and legal claims concerning it must be sent to the deceased's relatives aforementioned. Dated at Ananaboe this 11th day of December 1902.

W. E. B. QUAINSON
(Ananaboe.)

DANIEL A. JACKSON,
Saltpond

Former Executors and Administrators to the above named deceased.

GENERAL NEWS.

Mr. de Graft Johnson gave a breakfast on Sunday the 28th inst. at his new building (Kawauapark.)

The Masons in town celebrated the festival of St. John's Day on Saturday the 27th ult. to all appearance the Society is in a flourishing condition. Adieu!

The Harmattan season has been rather severe this year. Tradition tells us this is an indication of a prosperous year. So may it be. We trust it will help to allay the deadly effects of the Plague and divers diseases.

The Merry-go-round has contributed largely to the merriment of the season.

Some of the Bantial people who were arrested the other day have been sentenced to imprisonment.

The Makwimulu Club had their yearly recreations at B. J. Kwofi's plantation on the Christmas Day.

The inhabitants of the Market place and its vicinity are removing in view of the Victoria Park which will soon be in course of erection. The city is the inadequate sums which are being paid to house owners, not sufficient, all round, for the purchase of ground much more for building.

There was a ball at the Commissariat House on the night of the 30th ult. which from all appearance, came off nicely.

We regret to report the death of J. P. E. Orleans which took place at Accra on the 31st ult.

A correspondent writing from Ghanaic reports a serious conflagration there that entailed heavy losses, besides laying desolate many buildings.

Another correspondent writes from Sekondi, who after remarking on an unfulfilled promise of the Sekondi Lightering and Hotel Company to endow the hotel there with a Managership, complains bitterly over the over-grown state of the "front ground of the Hotel premises" with "grass" thus creating a nursing yard for "snakes and vermin, for feeding the guests." He wishes to call the attention of the Sanitary Inspector to this and suggests the cementing of the paved ground.

Pertinent to our last week's cutting from Truth touching a certain correspondence from a Mr. Amphiah of Frankfort Chambers & Co, Cape Coast, we again call the following from the same paper of the 1th December last, our comment on which we once more reserve—

"It seems that the letter from a Mr. Amphiah to a London Tradesman recently published in Truth is a sample of a very common class of communications from that part of the world. The business notions of the nigger trader are evidently somewhat chaotic. One of them writes to a correspondent whom he addresses as a "book seller and news Agent."

"Your name was highly recommended to me by a certain friend of mine that you are the best wood manufacturing, so that I want your Samples, Catalogue &c &c."

"In another case two ingenious youths wrote that they had heard some black men were wanted to learn the book trade, and proposed to come on receipt of Tickets for second class saloon passage to England"

With sincere regret we announce the quite untimely death of Miss Jouma Christina Thompson which occurred on the last day of the past year. She was the affectionate daughter of Mr. J. F. Thompson of the Treasury and niece of Rev. Egzie and Barrister Kofi Assani. For sometime she had been ailing from some malady which certainly never suggested the anticipation of this sad occurrence. For a girl of such amiable and respectful disposition to be cut off in the flower of her age is afflicting indeed and beyond what the human pen could describe. To the bereaved family we tender our sympathy—sincere and unalloyed.

Kwadwo Mensah, a clever young Bricklayer, brother of Mr. J. J. Kofi of Aborinso died suddenly on the 1st inst. It appears he was slightly indisposed

for a few days. We tender our heartfelt sympathy to the bereaved family.

Number of deaths for the week is registered at 9.

We deeply regret to have to record the death of Mr. Francis Chapman Grant which took place at the Salt Pond House this morning. The Masons and the Foresters attended his funeral which took place in the evening.

Mr. J. D. Abraham also lost a brother the day before (Friday). Anan he was called, a bricklayer. The bereaved families have our sympathies.

MOVEMENTS OF STEAMERS.

OUTWARD.		Due at Cape Coast.
Cameroon	S. W. Coast service	Dec. 30
Sekondi	S. C. Express service	Jan. 5
Warri	Opobo service	" 8
Accra	Brass service	" 11
Burutu	Lagos Express service	" 12
Egwanga	Opobo service	" 22
Comassie	Brass service	" 25
Volta	S. W. service	" 27
HOMEWARD.		
Loanda	Brass service	Jan. 1
Rona	Opobo service	" 4
Olanda	South Coast accel. service	" 4
Pentoe	South Coast Express Service	" 9
Tarquah	South Coast Express service	" 23

SEKONDI.

(FROM OUR CORRESPONDENT.)

We regret to report the death of Dr. Sanderson, who among other passengers from England by the *S. S. Ferguson* arrived on the 9th ultimo. The deceased touched the tropical soil only within an hour and a half, and died unexpectedly. His bereaved people have our sympathies.

I was startled from bed at 8 p. m. the other day by the roar of a cannon and at early dawn the *Ville Boat* for which that signal was made, turned out to be a craft. The officials who hurried to the beach at 4.30, that morning with the hopes of welcoming His Excellency, the Governor on board the *Philippine* were not only sadly disappointed, but rightly served, the signalman having been sufficiently pressed to do that duty, and as a matter of fact His Excellency did not land here as was expected.

The Case *Rex v. Grant* terminated in the acquittal of the accused on Tuesday the 16th December last. We hear a fresh warrant has been issued against Grant for a second act of felony and the police are fishing up every quarter of Sekondi for the young man. As the case stands there is every reason to believe that it is the action of a secret Agency. But it is a pity that people can be found to be so silly and ignorant as to believe all such trash and follow up the instigation, purely sentimental, of simpletons and avengers who simply do that to give "Roland for an Oliver."

On Sunday the 28th ultimo, an unusually great number of people were arrested for committing nuisance about some remote portions in the precincts of the town. The police, as they call themselves, are but scavengers disguised like the daw in borrowed plume. The increase in population demands in a permanent way an inadequately good number of latrines after the fashion of those at Accra and Cape Coast. This should be supplied before a step to all this nuisance in the outskirts of the town could be reasonably effected.

Of late there have been frequent interruptions in the Telegraph lines, but during the week we have had enough to sicken our souls. From whom must we ask the cause of this frequent unpleasant occurrences? If not from the Foreman of Telegraphs, we may rightly suggest to the Government the necessity of a branch cable being laid connecting Axim and this place, between which most of the interruptions occur.

A party of railway officials headed by the Chief Resident Engineer left by train this morning for the interior. The expedition, as understood is to arrange matters as regards traffic on the line now opened to Obassie. A very noble work!

CHAMA.

(FROM OUR CORRESPONDENT.)

The local School was vacated on the 15th ultimo for the Christmas holidays.

A burglary was committed at the store of a Tailor Lawrence on the 23rd ultimo. The thieves have not as yet been discovered. We would suggest that the authorities provide this place with more constables to guard the town at

nights. What can three policemen do at such a densely populated town?

We regret to learn of the indisposition of the Superintendent Minister of this Circuit. We wish him a speedy recovery.

The Sunday School work here has not been lacking in interest. Mr. T. M. Wilson its indefatigable Superintendent is working assiduously and consequently the work done by the Scholars is of a pleasing and commendable nature.

The Chams Wesleyan Mission House is a model of what a Tropical Mission premises should be.

It is reported that a branch of the Sekondi Railway will soon be laid this way. We hope this will prove to be a true report.

ELMINA.

(FROM OUR CORRESPONDENT.)

Messrs F. & A. Swamy are putting on some temporary repairs to their old Coal Shed at the back of the Castle.

As yet no relief has come for Dr. Browne. He does not seem likely to sit over any more cases in the D. C's Court.

We understand Dr. Derwent Waldron is to succeed him.

It is said that nearly fourteen vacancies exist at present for doctors on this Coast, the holders of the posts having resigned because they do not wish to be humbugged with magisterial work. All the Cases in the D. C's Court have been adjourned *sine die*.

Mr. Mattee died on the 18th of last month.

The *S. S. Cameroon* is due here on the 29th; according to the latest arrangements cargo boats in the Southern Windward Service are to make the trip between Liverpool and this port in thirty nine days—an improvement this is.

ACCRA.

(FROM OUR CORRESPONDENT.)

The Juvenile Branch of the Free Gardeners Lodge (*Friends of the Gardeners*) held its second Anniversary on Thursday the 25th December last by a Thanksgiving Service at Holy Trinity Church at 2 p. m., the Rev. Hastings Kell B. A., Colonial Chaplain officiating. After the service the members paraded through the town with a Band accompanied by Bro's John Arthur, A. G. Peters, L. R. J. Ruttman, John Amartiafo (adult members) and many ladies amongst whom were:—Misses Marian Bruce, Amelia Bruce, Evans, Victoria Hesse, Lily Jane Biney, and Floral Quartey. They retired to Asorfor House (Bro. John Arthur's) where a sumptuous "Fork and Knife" Tea was served.

The *Accra Races* under the Patronage of His Excellency Sir Matthew Nathan K.C.M.G., R.E. came off splendidly on Boxing day and the day following. This drew many spectators from *James & Usher Towns* and *Christiansborg*. Mr. T. E. Fell, the rider of Major Kison's *Bekwai* and the winner of the Governor's Cup with £20. must be specially congratulated.

Mr. C. J. Bannerman's *Katavore* won the Maxwell Memorial Cup with £10. The Governor's *Leasee*, *Product* and *Greater Product* won many prizes. The Trilly, the famous runner and winner of many prizes, owned now by Mr. Bonso-Bruce, lost all entrances this year.

The tower in course of erection to the Holy Trinity Church is nearing completion. The *Harmattan* winds have set in and have been blowing fiercely.

Mr. H. E. Barker, Agent of F. & A Swamy arrived here from Cape Coast by the *Burutu* on Christmas Day.

EDITORIAL NOTES.

To the fashionable and the conventional the festive season has entailed great expense. Here and there, there is no end of exchange of gifts in every shape—in every form.

Perhaps there has been no Christmas in which there have been so much animation and joy and pleasure as the one which has just closed. Young and old, great and small, the doctor and the fool—all have joined in the universal jubilation.

And so we are upon the threshold of the New Year. The old year—the year 1902 has

flown into the bourne from whence it will never return, and with it, its joys and sorrows, its failures and successes, its disappointments, its bereavements and losses—whatever we have done and suffered. Still there should be no reason to despair. Now is the time to profit by past experiences, and to be better nerved to face life's struggles. Wistful let us have hope—hope which is much needed in the stress and gloom of whatever betide.

But for all that we will not omit mentioning the fact that the old year had been a very sad one to the community; young and old, rich and poor, have all been called to the world unknown.

To all who have suffered during the year, the *Leader* tenders its heartfelt sympathy, and prays Him the friend of sorrows to grant them hope and consolation.

But while tendering to all our friends far and near the compliments of the season, we take the opportunity to thank our subscribers and other sympathetic friends who have testified their appreciation of our services by paying up their dues promptly and regularly. It is our sincere hope that there will be a stimulus to greater energy and determination for prosperity and success.

Thanks to goodness! Our detractors before this paper was launched, predicted but a short career for it, many were loud in the vain assertion that it would not reach a successful career—nay, that it would not survive a few days of its existence. But, be it to their discredit, the "Gold Coast Leader" has had the happy fortune to see these gloomy prognostics belied. The "Leader" yet lives. It has not given up the struggle for existence. It means duty and given duty, its destiny rests with the Great Director of events. Good bye!

About four years ago a dignitary of the Church of England speaking at a meeting held at Manchester by the members of the Society formed there for the *Protection of Native Races* said: "There were three things they were bound to endeavour to aim at. First we should aim at justice in every part of our Empire without reference to colour or creed. Next we should feel that we were charged with the duty of bringing all the best influences of civilization for the benefit of all those populations which belonged to our Empire. But our greatest responsibility of all was to endeavour to carry into those populations those blessings of the Christian life which are the greatest blessings in our own homes and lives."

When we look at how we are governed out here, when one sees what is going on around us when we observe the doings of the representatives of this Empire the Bishop speaks of, what a vast difference there seems to exist between the actions of these men and the noble sentiments expressed here! Is it the fault of the men or the policy they have to pursue out here that this difference we speak of exists? Can there be no remedy if we must be made willing, and cheerful subjects of the British Throne, that is, if we are to be accounted as part of the Empire.

We do not consider the treatment which has been given to the Bentsir people, arrested the other day, fair or right. This handful of men have been fined £70, or imprisonment, what for, we cannot tell. How easily the Government chest can be filled. But what is their charge. And we are told that the officer sent to arrest them in the way fired into them. This is a serious affair and we hope His Worship Mr. Peregrine will look into it.

The report goes that the men refusing to pay this amount (fourteen of them) were starved, probably to make them pay. Food is not supplied them nor would their people be allowed to take food to them. The observant ones among us think that the treatment now given to the natives is very hard and most unfair as compared to what it used to be. It is because more money is wanted for travelling and duty allowances or there is an urgent need for prison labour.

Really what is going on now in these days is most un-English.

It is true that "economy is no disgrace," but that economy which makes Government Offices stand in sore need of stationery is most disgraceful especially if we look at it at the way, fines (and heavy fines too) are inflicted for every mortal thing, no matter how trifling, it may be. Is Governor Nathan also likely to disappoint us as a Governor? What is there on The Gold Coast which works such changes in our Governors.

Last week we reported in our News column, that Dr. Murray had Mr. Ayensu arrested for shooting at some pigeons in the front of his own house, and the doctor himself has a regular daily shooting at them. It is always an unpleasant task for us to call into question the action of an official, and it is far more so for us on this occasion to do so when it is the doing of one whom we have always respected and considered to be one of those officials who command our respect. Why did the doctor have the gentleman arrested? Does he hold a monopoly over the birds at the Corner's Hill, or hold a license for them. It seems that any official can ask for the arrest of any one he puts into his head to have arrested.

GOVERNOR NATHAN AND SEGREGATION.

Among the West African governors it is much to be regretted that Sir MATTHEW NATHAN who had made quite a reputation at Sierra Leone for practical sympathy with the native, should have deviated from this policy and taken up the idea of segregation which is opposed in principle to the basic idea of government. Government covers all and places all upon an equal plane, while segregation separates a particular class for special treatment and is in direct conflict with the equality of treatment idea. The fact is no government which true to its tradition would undertake to set up a plan of segregation and the segregation scheme adopted on the Gold Coast is only another form of the Jim Crow arrangement in the United States. A policy of the kind can hardly be esteemed helpful in the way of consolidation as it is bound to produce the unfavorable impression with the native that the government means to set up a line of discrimination between its constituents. Such an idea is not calculated to inspire confidence and loyalty with the people, and the governors who are trying with segregation are not perhaps aware that they are initiating a policy full of political significance. It is not by a policy of segregation that Imperial interests are promoted in West Africa, and British rule consolidated, but by a policy of understanding the native and getting into touch with him and inspiring his confidence.—*Lagos Record, Dec. 27.*

THE ARRIVAL OF GOVERNOR KING-HARMAN.

The hearty welcome accorded Sir KING-HARMAN by the people of Sierra Leone on his return from Funchal testifies to the fact that in some way or other Governor KING-HARMAN has acquired a strong hold upon the affections of the people. It is the prerogative of a governor, and indeed ought to be his first object and duty to acquire such a hold, for it shows more than anything else that he has been administering the government wisely and well in the interest of the governed. The people do not take to a governor for nothing but are attracted by the sympathy which he evinces in their welfare expressed in the practical form of a policy directed to promote the interests of the people. It is not given to every governor to inaugurate such a policy, which is dictated by a deep regard for the native applies in the judgment of the new governor whose every act and action is watched with the closest scrutiny, and put either to the governor's credit or to his discredit. In this way a general opinion is formed and the governor who shows by his policy and treatment of the native that he is influenced by an impartial spirit and an honest and genuine desire to do justice to all alike, will not fail to acquire a strong hold in the affection of the people. The greeting accorded Sir KING-HARMAN stamps

him as a governor of the right stamp, and one whom the people of Sierra Leone believe in and can rely upon, and so his work of administration will be rendered easy as well as effective because it will be a co-operative work, the people working with the governor and the governor with the people. No doubt nor discord can enter into such a plan of administration for the simple and sufficient reason that the desires and needs of the people constitutes its inspiration and object.—*Lagos Record, Dec. 27.*

REUTER'S TELEGRAM.

Dec. 26.—Venezuela has agreed to submit the dispute to the Hague Arbitration on condition that the blockade is raised and fleet restored.

Portion of the Bomaliland force has proceeded to Obbia, Italy agreeing to facilitate disembarkation.

TO CORRESPONDENTS.

Intelligent correspondence on matters of interest touching the welfare of the Country is invited. We do not however hold ourselves responsible for the views or opinions that may be expressed by our correspondents.

Anonymous letters will not be attended to, or returned.

A non-descript or initials should be given if it is desired that the real name shall not appear in the paper. Name and address must accompany all communications as a guarantee of good faith.

Communications must reach the Office not later than Thursday.

Rejected communications cannot be returned.

Communications to which replies may be expected must be accompanied with Stamps.

The Gold Coast Leader.

CAPE COAST, JAN. 3, 1903.

A NEW YEAR'S GREETINGS.

For the first time the *Leader* has to greet its readers, of all shades and characters, with A HAPPY NEW YEAR. The year of grace one thousand nine hundred and two has just left us with all we were and did, travelling to the bourne from whence years return not. A solemn thought is this. With us as individuals or citizens of this Country, with those of us who are called upon to play an important part in the making of this Country, socially or morally, the year is gone with all our deeds (or misdeeds) shortcomings, or dereliction of duty.

We may as well consider such thoughts as these: As a native of the soil, or otherwise, have I done my duty, according to my position, influence or knowledge? Have I served myself, my people and Country as I should. Whatever the answer to these may be, 1902 has taken it along with it, to Him whose we are, and to whom all in the flesh are accountable.

To day we stand on the threshold of another year—1903! None of us has travelled this way before. Is it likely that if spared, we shall go over the same road again in all that we may have to do, or that may be expected of us? Or are we going to retrieve lost opportunities? "The times are hard." That is the cry now. What are we going to do then. Trading or 'concessioning' should not and ought not to be the only business we should interest ourselves in, we are to *live* and not merely exist. If we must rise as a people we must not be ashamed of labour—not refined labour as it were, but hard, honest labour, doing with all our might whatsoever our hands may find to do. To think that to be a gentleman, we must all be clerks, because we have seen a School room is a mistake which is fast ruining our Country. It is high time we gave manual labour some attention, and the other industries in the Country claimed our serious attention. Even those who are engaged in trade are ever crying, Trade is dull, and yet they will not stir, to see the phase of things altered. How, it may be asked, and the finding out of the "how" will solve the problem. The only change often laid at our door for those who look at us with the eyes of twenty centuries' civilization is laziness. We rightly resent this. As a people we are not, but when we must depend on them entirely for everything and allow ourselves to be wholly

anglicized, lazy people we shall always be to them. Think this out for yourself. Heaven helps those who help themselves is a trite saying, but the truth it enunciates is as old as Methuselah.

Then the politician: we must admit, that the political atmosphere of this Country, is inimical to the growth of any one who may interest himself in the politics of the Country. Everything is against him, and he becomes at once a marked man. Men whose sires have fought for their liberty, and they themselves delight in seeking for their rights are able to consider a person who does the same thing for his Country, a disturber in Israel, or impediment in their way, one whom they may strangle at the least opportunity, forgetting probably, that patriotism exists as surely in the breast of the black as it does in the white or in the Asiatic. But He who defends the cause of the RIGHT, and who defended the cause of their fathers, lives, and will defend ours, however gloomy and dark things may seem, for he is no respecter of persons—and we may add, no respecter of races. He made them all. Might may beat right, but Truth will prevail. All and everything depend on ourselves. Who does not know that in this Country things are done which cannot be dreamt of in any of the Colonies under the system of the Crown Colony Policy? Why this high handedness which is displayed in everything done by the Powers that be, with us? Why this oppression that has been existing so long amongst us, and is now riding red-hot in our midst? Because we are against each other, ourselves: because the foxes, the little foxes, (the native informants) spoil our vine. We cannot tell what amount of mischief these have done and are doing in the Country. But we judge no one. They have judged and are judging themselves by their own actions. But because our movements are closely watched and reported on, because our doings are always grossly misrepresented, because cartloads of falsehood are doled out to our disadvantage, only to serve as stepping stones for them to rise in the favour of Milford and so, or Sir Knight, or his armorerbearer, when we are not actuated by any ill feeling against any one or evil intentions in what we do, but to see that we are not unnecessarily trodden upon, shall we be disloyal to the Fatherland? We are always talking of oppression, and finding fault with this and that, what else can it be when we are so dead to our own interest, and submitters to ourselves and Country. We wish for ourselves a better ("New") year.

Why cannot this year witness a deeper, and keener interest, in our politics, education, and industry? It's true there seems to be a policy existing amongst us which has for its watchword, "Down with the blacks" in the governmental or mercantile world, it is true that our worse enemies are from our own ranks, it is true that we see no streak of light in our dark cloud, and if anything, things are getting worse and worse, whilst they are represented differently elsewhere which makes us to appear to exist for nothing else but to be everlastingly croaking and finding fault, and it is also true that it seems that things shall ever remain as they are of which we are always complaining but we ought not to despair of anything, but rather be more united, and true to ourselves and Country, and seek not to win the favour of any one; we do not ask you to set yourself against any one, we ask you to serve your day and generation better this year, and there are many ways through which you can do this. A HAPPY, AND PROSPEROUS NEW YEAR to all!

SCRUTINEER.

Once more the solemn tinkling of the midnight bell reminds us that we have been immersed into another year. The year 1902 with all its advantages, glories, blessings, woes, temptations, happy and mournful events has passed away, gone, gone for ever and rolled into eternity! Whatever we did whether moral or immoral is past recalling, mending or redeeming. We are not to look mournfully into the past as it comes not back again.

Figure B18: Evaluation Image 18 – The Gold Coast Leader

But though we are not to look into what has been perpetrated and gone, it is not required of us to continually sit unconcerned in this chronic state of inactivity. But this much admonishes us to endeavour to lead such lives that each succeeding day may seem better and more profitable to us individually and to our generation.

We have surely left undone those things which we ought to have done both in our religious, political and social duties. And on the other hand we have not left undone such enormities as indulging in petty prejudices, willingly and unwillingly betraying day by day our nation, in exhibiting marked and perpetual indifference towards our political interests, and in engaging in profless spitefulness and wolfish enmity.

How many were with us in the field during the past year's bivouacking we cannot estimate, but the fact certainly brings to our remembrance, the recollections of many dear ones whose company and faces we shall never have the pleasure of sharing and seeing on earth; for since the divine edict went out—"Dust thou art, and unto dust shalt thou return," it has had its vigorous operation, making no distinction between great and small, rich and poor, the man of many surroundings and the orphan—For it is an order that must pass on all men.

Whatever the year 1903 has in store for us is a mystery known only to the Great and merciful Creator, the Steersman of our destinies. But we must surely be vigilant as become men waiting for an unexpected event, strange apparitions and unexplained occurrences, especially in this Gold Coast of ours, the land of strange and unexpected visions.

At the onset we must wake up from our long and miserable lethargy, if we must achieve some good reforms this year. Our fathers in their time played their part well and we should for 'shame play our part well and as much as lies in our ability, so that we might leave foot-prints worthy of the tread of our immediate successors, and at the end of the year may be able to speculate conscientiously "I have done what I could during the past year."

And now, dear reader, I wish you a happy and prosperous New Year.

Yours faithfully,—Aroo.

THE FISHERMAN OF CHAMA.

From time immemorial, the inhabitants of the fishing town of Chama on the windward coast, have been regarded by their brethren of the other towns as not worth their salt, on account, it is said, of their extreme ignorance and unparalleled simplicity.

Tradition tells us, that in the days of the Fishers, a plain honest citizen of this romantic town, a fisherman by profession, being desirous to smoke at a rather late hour, and not having the necessary to light his pipe, went out in search of a spark of fire. After a great deal of inconvenience and trouble, he succeeded in obtaining a spark of fire with which he lighted his pipe, and commenced smoking away furiously. Whilst enjoying his pleasant pipe, he noticed that a light beam reflected on the trouble he had undergone, for the little spark of fire, and at a last burst out in a soliloquizing tone, "My word what a world of trouble I have gone through at this very late hour for this little spark of fire. That woman at the other end of the street, to whose house I at last resorted, was very nigh taking me for a burglar, and where would I have been now? However, I have succeeded in proving the truth of the old saying 'where there's a will there's a way.' To prevent the same trouble at a future similar occasion, I will not throw away this little spark of fire, but will keep it very carefully, and I have not the least doubt, it will serve my purpose for, at the very least, the next two weeks to come." So saying, he picked up the spark of fire, and carefully wrapping it, in a piece of cloth, hid it for better security in the thatch-roof of his shanty. He was now perfectly satisfied with himself; and with a light heart, proceeded to the beach; launched his canoe, and paddled off to exercise his vocation. In a few minutes, turning his eyes towards the town, he perceived what appeared to him at the time to be a big bonfire. "Oh my! I never would have believed it!" he exclaimed. "This little spark of mine has been the means of producing this big fire. For the next twelve months to come, there will be no necessity for late hour smokers to go out at the dead of night in search of a spark of fire. I have rendered a boon to my brethren, and they ought to express their indebtedness to me, by presenting me with a tight little 'meow' and a set of nets." Without giving the subject any further attention, he calmly continued his fishing till day-break, when, having made a free haul, he paddled towards the shore. On nearing the shore, he was surprised to perceive nearly the whole population of the town assembled on the beach. A little reflection assured him that

they had assembled there to do him honour for his benefaction to the community, and to smokers in particular. With an assumed air of consequence he landed; but unfortunately, rain are human expectation.—Western Echo, Oct. 23, 1886.

LETTERS TO THE EDITOR.

[We regret that many of the letters we publish have had to be cut down. Correspondents who desire to see their communications printed in full must bear in mind the limitations of our space, and that we can seldom find room for letters exceeding 300 or 400 words in length.]

To the Editor, Gold Coast Leader.

Dear Mr. Editor.—Kindly allow me a space in your valuable Journal to disclose to the public the cause of the early closing of the Otair convention which the Anamaboe correspondence attempts to hide not thinking that the public could judge otherwise by the portions of the correspondent which runs as follows:—"The absence unavoidable or otherwise, of the majority, however had a tendency to complicate matters but those present after much consideration arrived at a resolution."

Those present being the King of Anamaboe and Chief of Ayeldu insufficient to form a quorum were indeed complicated in the absence of the majority and arrived at no resolution though the correspondent alluded to one in his last paragraph—

The Ayeldu chief unfortunately for the correspondent let out the names of the King of Anamaboe and himself as the inventors of the Otair convention, at Cremantine and made matters more suspicious that King Otair's messengers were waiting for him at Ayeldu to hear the glad tidings which is the resolution of the Borbor Kings against the King of Abura on their behalf &c. his claim of the Aedin land, hence it was a disappointment to them in consequence of the non-attendance of the Borbor Kings, yet they shall meet again.

Both the correspondent and the Ayeldu chief were ceasing to omit mentioning the valuable hints they had that the D. C. at Salt Pond had been ordered to retire them at once, the actual cause that hurried up the closing of the convention. If the correspondent still insist that some resolution was arrived at, circumstances will prove such resolution to have been made between the heels and the toes of the King and chief and it ended in vagaries of sounds rocketing over the tops of gigantic shading trees which the correspondent artistically described as Otair and as much as to say such resolution cannot be recorded in the volume of their leaves in addition to the unfolded history of the place when the seats of four Independent and Senior Kings were vacant.

The correspondent will benefit the public if he would contradict Ayeldu chief's statement by mentioning the very name of the King to whom the Borbor Kings previously gave their consent and approval to the meeting and its object as appeared in his last paragraph.

Now let me turn to the Salt Pond correspondent who seems to believe in the promises made by the late Doctor Coker that the Ayeldu chief shall be promoted to a king as soon as the thatch roof on his house is replaced with iron, otherwise he is wrong to honour the chief with titles of a king and I am hindered this way of evil cause which obstructed the attendance of the Borbor Kings as they conceded the idea that the meeting was intended for Borbor chiefs and not kings, the authority cannot help styling the Kings on this Coast as chiefs to avoid complications of the natives by calling real sub-chiefs as Kings.

The Superior Chief of Dommasie was very considerate to refuse the invitation under the plea that it is not an ancient custom that the King of Anamaboe convenes meeting and invites him, therefore if chief Odom of Impesudadi hears of the movement of the King of Abura to the Otair convention he may let him know, that he may go and sit near him.

Thanking you exceedingly for this waste of your valuable space.

I beg to remain Yours truly,—Orsta Owl.

Otair, 23/12/02.

Dear Sir.—In your issue of the 13th December last I find Mr. Champion writing in reply to my letter of the 15th November last. I must say Mr. Champion is Dixcove's greatest enemy. I am a pure Dixcovean, born at Dixcove and I would be silly to run my Country down if all what I said was untrue. May I personally and on behalf of the parents be satisfied that the present condition of the Day School is satisfactory? I repeat again that the present condition of the Dixcove Singing Band, Sunday and Day Schools is very shameful and pitiful. Mr. Champion may be quite a stranger otherwise in comparing the condition of the past Singing Band, Sunday and Day Schools, especially in the golden days of the Rev. J. B. Graham, to that of the present he would arrive at a vast difference. Why can't the Wesleyan authorities ap-

point one man whose business would be to go round the whole circuit at least once in six months, and see how their work is going on although they have faithful men in their places? Well, if I credit Mr. Champion with that point viz.—"Messrs Boyle and Godecke have distributed prizes and have recently ordered some more beautiful books to distribute among his scholars" on which he stands to think that the Day School is in a proper state, what must I put down for the Singing Band and Sunday School. Thanking you for the valuable space you have once more allowed me.

I am, in readiness Dec. 1902. J. P. Mensah.

Dear Mr. Editor.—May I understand that the 'Gold Coast Aborigines'—that admirable organ which boldly came to the rescue a short while ago, has been allowed to collapse through want of attention and support by its Proprietors—The Aborigines Rights Protection Society of this town, and that up to the present day the Editor and his staff have not received their wages for their services. This, in all conscience is a crying shame rather unfair—to use a moderation, with all due deference to the honorable and influential members. The immortal Archimedes once said, "Give me whereon to place my lever and I will move the world," and so it is that, that society is visionary, uncalculating and impractical withal which attempts to accomplish great ends with means that lack efficiency, energy, love and purpose, a purpose once fixed then death or victory. These are the qualities at the very foundation of stability and success for any true society; minus which no society, no matter how influential or influential the members thereof, is worthy of a name. A glowing and high sounding name there may be, but "what's in a name?" Without that love and true determination which should at once be the standard and governing principle of society in its true and proper sense, all is nothing but the "Dunstable fabric of a vision that leaves but a wreck behind." The Aborigines Rights Protection Society must choose one thing or other—either sies to live or to work heartily and honestly for the country, the race, and God. This kind of spurious patriotism must be blown away. We have too many important issues and interests at stake to afford room for selfishness, canting hypocrisy, and fanfare in matters affecting the material physical and intelligent well being of the country. Ignorance, more than anything is responsible for this social blunder. Let the members be given to understand the actual state of things and fashion the great responsibility that devolves upon them as a Society. This alone will doubtless operate to a reversal of the present iniquitous state of things.

Many thanks for the space allowed. Yours truly,—A. BY-STANDER. Cape Coast, 2nd. Dec. 1902.

AXIM IMPROVEMENT.

Dear Editor.—Permit me a short space in your valuable columns for the insertion of my observation on Axim improvement.

Going along the Street the other day, I was forcibly impressed with this fact that Axim bids fair to be the third important town in this colony.

Notably among the so many things which gave me this impression is, my being ushered into a rather neatly-fitted Store of medicines properly known, or called "Druggist Shop" situated in Upper Town, facing Mr. R. T. Arthur's big house.

Upon enquiry, I was informed, that this store has been opened and kept by our friend and citizen Mr. T. Hanson Quaco, recently a certified dispenser in the public service, but who has now resigned the Government and obtained a Druggist License to sell drugs in Axim.

Taking many things into consideration, it could most reasonably appear to even the most superficial observer that this druggist shop is one of the best boons that Axim can ever enjoy, and will, in time if well patronized, be a source of innumerable blessing to the Community—I say it would be a boon and a blessing, taking the fact of a town like Axim teeming with so many hundreds of lives the European element not exempt, with only one medical man to attend them, and that one a public officer, with so many restrictions in connection with his service to the community at large.

If therefore, there is a druggist shop at hand, where a simple turn at the corner will bring you readily what little stuff you need to patch up a cut, alleviate a pain and obtain relief sooner from whatever afflicting you may be smarting under. Then also is the fact that the manager and dispenser of these drugs we all know well, that he is thoroughly qualified for the place, and one that one can place reliable faith in, as we have known him during his official career his well-regulated habits, his untiring zeal and careful attention to his work, his rather reticent and reserved manners which served on the contrary to proclaim his ability and trustworthiness, and endeared him to the hearts of many who had to command his services, therefore, I say, these facts should guarantee the confidence, court the attention of the public to this well-timed store, and support the assertion, that a "druggist shop" in Axim should be a boon and a blessing.

I do not know whether or not Mr. Quaco intends to advertise the different kinds of drugs in his store,—but whatever he may do, this much I know, that the store contains all that Axim may want for the present, and the arrangements and qualities of the medicines are sufficient advertisement to all. "Come and see and be satisfied."

Thanking you for the space allowed. Yours truly, Jefe Tristain.

Axim, Nov. 1902.

Printed at the office of the GOLD COAST LEADER, Salt Pond Road, Cape Coast, by J. B. GRANT.

Figure B19: Evaluation Image 19 – The Gold Coast Leader

B.2 Processed images

lication should be addressed to the Editor. Business Communications and remittances either in Cheques or Post Office Orders should be sent to the Manager, "Gold Coast Leader" Office, Saltpond Road, Cape Coast, West Africa. For copies of the paper please apply to the Stores of Messrs. E. ARTHUR, at Chapel Square, Accra, Martin Street.

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This Firm having a much larger Capital, and a very efficient staff of assistants, available for the working of their business, Customers will undoubtedly reap greater advantages than he has hitherto been able to offer especially as regards the prompt shipments of Goods ordered.

As the new business will remain under his management any indents Clients may be pleased to favour the Firm will as heretofore receive

The inhabitants of the Market place and its vicinity are removing in view of the Victoria Park which will soon be in course of erection. The pity is the inadequate sums which are being paid to house owners, not sufficient, all round, for the purchase of ground much more for building.

There was a ball at the Commissariat House on the night of the 30th ult. which from all appearance, came off nicely.

We regret to report the death of J. P. L. Orleans which took place at Accra on the 31st ult.

A correspondent writing from Obuasi reports a serious conflagration there that entailed heavy losses, besides laying desolate many buildings.

Another correspondent writes from Sekondi, who after remarking on an unfulfilled promise of the Sekondi Lightering and Hotel Company to extend the hotel there with a Manageress, complains bitterly over the over-grown state of the

Figure B20: Processed Evaluation image 1 - The Gold Coast Leader

4

THE GOLD COAST LEADER.

JAN. 31, 1903.

We should have thought that Dr Murray would have acted otherwise. Why did he arrest Mr Ayensu with his go-cart boys, "imprisoned" him in his own quarters, and wrote to the Police and had him taken to the Police Station for doing the very thing, committing the same offence, which in his case is graver and far more reprehensible, than in Mr. Ayensu's? He the Senior Medical Officer, shooting on the Hospital grounds, and on Sundays, and what is worse wounding people in homes, to go soon free, and yet have the audacity if not the impudence to arrest another man, for casually doing the same thing! This is preposterous in the extreme, and we refrain from saying anything about it, till we see what his superior officers' will say or do in the matter.

ed to the Governor's "Memorandum" we referred to sometime ago, to try to convince our Government scientifically of the utter nonsense of the present mode of taxing their famous bushing, in other words to bring his extensive knowledge to bear on the Sanitation of the Country and thus mark out a path for himself on this all important question at this moment engaging the serious attention of the African's actions of the Chambers of Commerce in Liverpool, Manchester and London. We implore the good doctor to think on these things.

"AFFAIRS OF WEST AFRICA."
BY EDMUND D. MORSE.

pass through the 'Council' to provide for the cost of same. Let them suggest that a certain King or chief should be distooled—and alas that potentate! Let them suggest that the moon should, in the interest of trade, be annexed and the next day an expedition would be fitted out to operate. Really what a moonstruck body of men are the 'Gold Coast Foreign Chambers of Commerce!' And what a wonderful institution is the Gold Coast Government!!

Though my knowledge of the Postal Service is not very extensive, it seems to me that the system of 'frying out' mails to the public is very stupid. On mail days after the mails have been received into the office and duly stamped, a clerk mounts

Figure B21: Processed Evaluation image 2 - The Gold Coast Leader

MARCH 7, 1903.

THE GOLD COAST LEADER.

(6) We did not see his way clear to having a branch of the Railway at Cape Coast. There are no funds to do this, the Government could not get any of the Banks in England to give a loan to this Colony owing to the speech (?) he made in England some time ago on the Mining Industry which seems to have shaken their confidence greatly in the Commissions out here. When the line to Kumasi is finished, there will be one from Kpong to Accra, and if he lived till then, and he still in the Colony, he hoped to have another line running from Sekondi to Accra.

fast in the docks, and unfit for sailing the wide seas—crusted with barnacles of custom and prejudice—and in every gale of wind pulling and straining at a rusty chain anchor. "But the spirit of change is in the world, a hurrying movement that has wings of fire, and might possibly be called Modern Methodism; It is better that the torch should be lighted from the members of the Synod than the members of the Church." This change has for some years already affected Methodism every where but that of the Gold Coast, and here is the secret why although the annual subscriptions come in now and again handsomely, increase and decrease of membership are reported with the regularity of the

from the Gold Coast Globe is interesting in its own way and I hope it received due attention from our readers. I have been taught however that such advertisements or notices are sometimes paid for. But let me not be misunderstood. I do not say that this article was paid for, as I am not in a position to prove. I am only sorry that my subject and the space as my command will allow my digesting fully the article. But I figure with the article written—whichever he may be—when he asserts that "Major Nathan has already greatly endeared himself to the Gold Coast Colonists," who are, of course the European element. We are the governed and we are on the spot,

Figure B22: Processed Evaluation image 3 - The Gold Coast Leader

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ferred with Neurasthenia and in some cases, and became delirious. I was turned out of my hospital incurable. Then came Dr. Cassell's Tablets. Do what I would, or Mr. Cassell, make me like what I would, I never slept night or day, but came at last with Dr. Cassell's Tablets. They enabled me to sleep, and now I am a strong, healthy man again."

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Figure B23: Processed Evaluation image 4 - The Gold Coast Leader

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ADVERTISEMENTS.

Figure B24: Processed Evaluation image 5 - The Gold Coast Leader

The Gold Coast Leader.

VOL. XIII.
No. 625.

CAPE COAST, WEST AFRICA, SATURDAY, AUGUST 1, 1914

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Including postage 4d

THE GOLD COAST LEADER

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Figure B25: Processed Evaluation image 6 - The Gold Coast Leader

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J. H. DRAKE,
Chief Agent.

Figure B26: Processed Evaluation image 7 - The African Standard

Uganda Railway.

The War in the Far East.

STRAY JOTTINGS.

The Latest Cables.

NOTICE.

TIME TABLE ALTERATIONS.

Public notice is hereby given that that the present train and steamer timings will be altered with effect from 1st July. New time tables with full particulars will shortly be issued.

By Order, A. E. CRUICKSHANK, Traffic Manager

Traffic Manager's Office, Nairobi, 14th June, 1904.

Reuter.

London, June 18. A despatch from General Sienkiewicz... and says that a superior force of the Japanese on the 15th turned his right flank and compelled him to retreat northwards by three roads, his losses were heavy, the Japanese fire wiped out two batteries and 18 out of 16 guns were destroyed and abandoned.

London, June 18. General Bobrikoff is dead.

London, June 18. Admiral Kaminama's fleet started on the 15th in pursuit of Siro's fleet's squadron.

London, June 18. It is understood that there are marked dissensions in the Cabinet

Nairobi, June 22.

The incident connected with the abrupt resignation of Sir Charles Elliot as Commissioner is one which discloses the extent of the control exercised by the Foreign Office authorities upon their Agents abroad. In this case the attitude of the Commissioner is highly praiseworthy. Local trusts may help to swell the ranks of Agents who are concerned in the monopoly, but are detrimental both to the interests of the country and to the public at large.

Spears are shortly to take place at the Race Course, promoted by some members of the Turf Club. The proceeds of same are to be applied to some sports official fund. It is a novel idea in the neighbourhood.

Railway subordinates are enjoined to have the grass in their compounds cut. Failure to comply with the above order will entail the

Reuter.

London, June 18. 'Pall' Pety has announced that the transfer of Zambiar and Pembe to the Colonial Office is not yet decided.

London, June 18. A Frenchman named Thury won the Gordon Bazaar race while Jenatton a German was second, none of the Englishmen had a place and nobody was hurt.

London, June 20. The following in the result of the Market Harborough election: Mr Philip Stanhope Liberal 7848 votes, Mr Dixon Unionist 6100. The position is unchanged.

London, June 20. Mr J. A. Poyer, M.P. (Cons.) has resigned.

Figure B27: Processed Evaluation image 8 - The African Standard

just as Macdonald was collecting his troops and stores for a start. No incident of Imperial expansion has been so extensively and vainly debated as this. There are Uganda cliques. Nearly every pro consul who has ever reigned here has his partisans and controversies about the various stages of the "settlement of the country are numerous as the direct consequence of the great difficulty and prolongation of the operations. Macdonald has been more bitterly and persistently attacked "criticism" is too weak a word than any. Being an Aberdonian, he has taken his unfair punishment like a man. But he does not lack advocates, and of these Major Austin, who had worked with him long before Uganda days, is one of the most loyal, and at the same time most convincing. The Soudanese who mutinied were the one evil legacy left to Uganda by Sir Frederic Lugard. They were the derelicts of the forces of Emin Pasha and Sir Henry Stanley, and in the main not very good Soudanese, though a certain proportion were excellent. They had served a great purpose when first introduced into Uganda and scattered in garrisons over a wide country. When Macdonald arrived from England in 1897 they were ripe for mutiny. The immediate cause was undoubtedly overwork. The King Mwanga had recently fled from the capital and raised a revolt. There had been a great deal of fighting and

ways unique. The reader can follow with ease the whole of a scene which complicated series of marches and fights. As is well known, the rebels ultimately evacuated Lubwa's, and fled across the Nile, whither they had to be pursued, Macdonald had to undertake at the same time the suppression of the revolting Mahommedan natives under a wanga, and he had a hard job of it in the seven months that elapsed before he was able to piece together his expedition again and start for the north. The ability displayed by the leaders of the Soudanese was indisputable. For instance, they evacuated Lubwa's with as much ease as if there had been no investing force within miles. Their intention was known beforehand as Major Austin shows: "A deserter told us the mutineers were meditating an attempt to break out by water, utilising the flow for this purpose to cross to a promontory about two miles across the lake from their present fort at Lubwa's. The Soudanese, he said, still possessed from 20 to 30 rounds of ammunition per man, and had strongly loopholed their fort, which they regarded as impregnable. One tier of loopholes was right down on the ground on a level with the top of the ditch, the men lying in regular excavated pits, in which it was impossible that they should be hit." He laughingly added "You may be able to beat us in the open, but don't make an attempt to storm the

certain from what he saw of the Sobat region in the following year that Macdonald would never have got through the floods and swamps in the rainy season. The author's story of the doings of his own column are of course, absolutely authentic and add much to our knowledge of country he traversed and its inhabitants, especially the magnificent but unreliable Turkana, who gave him much trouble on the way back. One finds that the actual hardships suffered by the Austin column before their arrival at Rudolf do not read so distressingly in the author's retrospect as they did in the newspaper stories of the time. But he had not his sorrows to seek, and it is plain from his narrative that if "occupation" of the whole of Uganda is ever decided upon it will go hand in hand with the Turkana perhaps also with the troops that are sent after them. Major Austin quotes with pride a certificate of the good behaviour of his men he got from one of the chiefs he came across. There is a very little of the information he procured that can be conveyed within the limits of a review. Only we may quote as a specimen of his style (which is not attractive) the following sketch: "The Swahilis that afternoon brought round the chief of the Ngaitika Turkana—Eitopal Kiapa by name—to make friends with us. He was an enormously fat man,

Figure B28: Processed Evaluation image 9 - The African Standard

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Hair and Wool Mattresses, &c., Guns and Ammunition, Tools and Iron
mongery, Medicines, &c.

Buyers of Ivory, Rubber, Gum, Wax, &c., in large or small quantities

The Antwerp East African Trading Co., Ltd.

J. H. DRAKE,

Chief Agent.

Figure B29: Processed Evaluation image 10 - The African Standard

providing a reduction in Salt tax and extending abatements of Income tax, shows a surplus of £948,100.

LONDON, MARCH 20. The election for Rye to replace Mr. Brookfield, Conservative, who has been appointed Consul for Montevideo has resulted in the election of Mr. Hutchinson, Liberal, by 4910 Votes to 4876 given for Mr. Boyle, Unionist.

LONDON, MARCH 20. The American Senate have sanctioned the Panama Treaty mentioned in Reuters of the 4th instant.

LONDON, MARCH 20. A serious revolution of nationalists has arisen in Uruguay.

LONDON, MARCH 20. In a letter to the Times from the Bishop of Uganda, the Bishops strongly condemn Sir Harry Johnston's proposal in favour of recruiting Trans Zambesian natives for the Transvaal Mines.

LONDON, MARCH 20. Reuters' Agent telegraphs from Bloemfontein that there is extreme dissatisfaction in the Army garrisoned in the new Colonies owing to the fact that the majority of the troops as well as the officers and their wives are still living in tents. The officers complain bitterly of the class of recruits that are being sent out, many of the are mere boys and are scoffed at openly by theutch.

LONDON, MARCH 20. In consequence of the striking victories of the opposition at

THE ANTIQUARY.

At table strewn with books I saw him first; His mind and eye alike, on knowledge bent; Most eagerly he moved from page to page; Then paused awhile, as if at least content.

But then the quest was once again renewed Again he scanned each closely printed page; A small shrunken figure, full of life and fire; Seeking the treasure of a long past life's age.

I thought with shame upon my idle state; Of why those tomes had never chained my looks; Then left him there alone—a big red ant, Quite buried in a pile of musty books.

Nairobi, 13 03. B. E.

SELF SUPPORT IN NONGONILAND.

In the earlier days of the Mission the

time, and all, had given of this communitarily. Given a commanding personality in the teaching, or an influential or interested chief, there is no limit to the service of this type that can be got from the people. Schools are now entirely built by the people; we have more than seventy of them. Most of these are built of reeds and planks, are plastered and thatched, and are seated in a rough fashion. But the total value of a good school of this type is not more than £3. Recently, however, model schools are being erected by the people. Last year five schools and a church were built, but this year more than double that number are promised. These are valuable property, a continual lesson to the people, and are the pride and delight of the builders. In many another form this contribution of free labour expresses itself. Monthly hundreds of messengers carry little loads and letters to and from the large network of schools without pay. Roads are always being made or kept in repair, station grounds are swept, and school houses are cleaned and repaired every week without payment. At HQs we tried to engage four women. But no one would take up the work, it was too heavy, and we had to fall back on free labour. Now schools and church are regularly cleaned without a grudge and without cost. This is the first time in the history of the

Figure B30: Processed Evaluation image 11 - The African Standard

THE AFRICAN STANDARD. SATURDAY, JANUARY 7, 1905.

THE LAND POLICY.
(Contributed by an Old Selector.)

A few words on the Land Policy of British East Africa. Thousands of years ago in the Land of Canaan the herdsmen of Abraham, the pioneer squatter, and Lot the first selector, had a serious quarrel, probably about grazing rights, an early indication of the importance of the land question to humanity. Since then in every clime, and in every age man kind has witnessed the same struggle, some times accentuated by tragic episodes like those of the Gracchi in Rome. The contest for the land shook the Roman Republic to its centre in various periods. It simmered throughout the middle ages and in modern times it has been the cause of many a violent revolution and upheaval. The great self-governing Colonies of Great Britain have not been free from agrarian agitation, notably in New South Wales where free selection before survey was the watchword of the people. The principle so strenuously advocated by the late Sir John Robertson was

Chili. The market is steady. In sales this week there were 50 bags of Nyassaland offered and sold. Fair bright red and yellowish at 35, dark red at 38, and mixed yellow and red, some perished at 37. 240 bags of East Coast African were bought in at 45 for fair red, and at 37 for mixed yellow and perished. 58 bales of Zanzibar offered and bought in at 50.

Capricorn were only represented by 1 bale of Natal which, however, did not change hands.

Guam. In sales yesterday 210 pigs of Zanzibar was offered and 52 sold. Some strong, fair, bold, pale and ambery, with part small £9 10 to £9 12 6, ditto part rough and red £8 10, mostly weak fair bold with part small £5 5, weak medium and small to fair clean £5 per cwt. Essex and pea strong pale £7 per cwt, pickings clean reddish with part medium bold 35, fair clean small to medium 20 to 25, low dark and woody part ordinary 10 to 15. Siftings fair pale clean 40, dull to specky 30 to 35, inferior 19 6 to 25 per cwt. Copal character clean pale with little reddish 75 per cwt.

Temp. African still continues conspicuous by its absence consequently prices are nominal. In sales this week there were 25 bales of Mauritius offered, and 8 sold at £31 5 per ton subject. We quote Mauritius on the spot good white at 33, fair 30, and common 27 per cwt.

LIPTON'S TEAS. PURE, FRAGRANT, REFRESHING. The Joy of Every Housekeeper. Obtainable at all Dealers.

Figure B31: Processed Evaluation image 12 - The African Standard

Pertinent to our last week's culling from *Truth* touching a certain correspondence from a Mr. Ampiah of Frankfort Chambers & Co, Cape Coast, we again cull the following from the same paper of the 4th December last, our comment, on which we once more reserve.—

“It seems that the letter from a Mr. Ampiah to a London Tradesman recently published in *Truth* is a sample of a very common class of communications from that part of the world. The business notions of the nigger trader are evidently somewhat chaotic. One of them writes to a correspondent whom he addresses as a “book seller and news Agent.”

“Your name was highly recommended to me by a certain friend of mine that you are the best wool manufacturing, so that I want your Samples, Catalogue & Co.

‘In another case two ingenuous youths wrote that they had heard some black men were wanted to learn the book trade, and proposed to come on receipt of Tickets for second class saloon passage to England’

With sincere regret we announce the quite untimely death of Miss Joana Clarisa Thompson which occurred on the last day of the past year. She was the affectionate daughter of Mr. J. F. Thompson of the Treasury and niece of Rev. Egyir and Barrister Kofi Asaah. For sometime she had been ailing from some malady which certainly never suggested the anticipation of this sad occurrence. For a girl of such amiable and respectful disposition to be cut off in the flower of her age is afflicting indeed and beyond what the human pen could describe. To the bereaved family we tender our sympathy—Sincere and unalloyed.

Kwodwo Mensah, a clever young Bricklayer, brother of Mr. J. J. Kofi of *Abowin* died suddenly on the 1st inst. It appears he was slightly indisposed

How many were with us in the field during the past year's bivouacking we cannot estimate, but the fact certainly brings to our remembrance, the recollections of many dear ones whose company and faces we shall never have the pleasure of sharing and seeing on earth; for since the divine edict went out—"Dust thou art, and unto dust shalt thou return," it has had its vigorous operation, making no distinction between great and small, rich and poor, the man of many surroundings and the orphan—For it is an order that must pass on all men.

Whatever the year 1903 has in store for us is a mystery known only to the Great and merciful Creator, the Steersman of our destinies. But we must surely be vigilant as become men waiting for unexpected event, strange apparitions and unpleasant occurrences, especially in this Gold Coast of ours, the land of strange and unexpected visions.

At the onset we must wake up from our long and miserable lethargy, if we must achieve some good reforms this year. Our fathers in their time played their part well and we should for shame play our part well and as much as lies in our ability, so that we might leave foot prints worthy of the treading of our immediate successors, and at the end of the year may be able to ejaculate conscientiously "I have done what I could during the past year."

And now, dear reader, I wish you a happy and prosperous New Year

Yours faithfully,—Atoo.

which the Anamaboe correspondence attempts to hide not thinking that the public could judge otherwise by the portion of the correspondent which runs as follows:—"The absence unavoidable or otherwise, of the majority, however had a tendency to complicate matters but those present after much consideration arrived at a resolution"

Those present being the King of Anamaboe and Chief of Ayeldu insufficient to form a quorum were indeed complicated in the absence of the majority and arrived at no resolution though the correspondent alluded to one in his last paragraph—

The Ayeldu chief unfortunately for the correspondent let out the names of the King of Anamaboe and himself as the inventors of the Otsir convention, at Cromantine and made matters more suspicious that King Otsibu's messengers were waiting for him at Ayeldu to hear the glad tidings which is the resolution of the Borbor Kings against the King of Abura on their behalf *Re* his claim of the Assin land, hence it was a disappointment to them in consequence of the non attendance of the Borbor Kings, yet they shall meet again.

Both the correspondent and the Ayeldu chief were cunning to omit mentioning the valuable hints they had that the D. C. at Salt Pond had been ordered to retire them at once, the actual cause that hurried up the closing of the convention. If the correspondent still insists that some resolution was arrived at, circumstances will prove such resolution to have been made between the heels and the toes of the King and chief and it ended in vagaries of sounds rocketing over the tops of zigzag shading

Figure B33: Processed Evaluation Image 14 – The Gold Coast Leader

ADVERTISEMENTS.

Mr. Bernard Hicks

79 Mark Lane, London, has the pleasure to inform Clients on the Coast that he has been able to make arrangements with Messrs.

Mathews Wrightson & Co.

of 32 Great St Helens, London E. C., a Firm of acknowledged standing and reputation, to take over the business carried on by him for some years past.

This Firm having a much larger Capital, and a very efficient staff of assistants, available for the working of their business, Customers will undoubtedly reap greater advantages than he has hitherto been able to offer, especially as regards the prompt shipments of Goods ordered.

As the new business will remain under his management any indents Clients may be pleased to favour the Firm will as heretofore receive his best and personal attention.

Thanking you for your esteemed commands in the past and trusting you may do a large and mutually satisfactory trade with the Firm in the future and soliciting the continuance of same.

J. D. AAKU,—Agent.

To be let one Large Store in De Graff's Hall formerly known as Holdbrook's Store. For particulars apply to Mr. J. J. Kwofi, Jerusalem Street, Cape Coast.

time. It is a pity the Court of Justice should be subjected to such indignity.

Number of deaths for the week is registered at 9.

MOVEMENTS OF STEAMERS.

OUTWARDS.

Due at Cape Coast.		
Warri	Opobo service	Jan. 8
Accra	Brass service	" 11
Burutu	Lagos Express service	" 12
Egwanga	Opobo service	" 22
Coomassie	Brass service	" 25
Volta	S. W. service	" 27
Mehta Bohlen	G. C. Express service	" 16
Eleo. Woermann	Accel. Main. Line	" 27

HOMEWARDS.

Adolph Woermann	Accel. Mail line	Jan. 11
Bonny	Brass service	" 15
Jebba	Lagos Express service	" 16
Axim	Opobo service	" 18
Tarquah	South Coast Express service	" 23
Bathurst	Brass service	" 29

ELMINA.

(FROM OUR CORRESPONDENT)

Sister McCarthy of the Roman Catholic Mission died here on the 28th December last

Mr. Justice Stanley Morgan arrived in town from Cape Coast on the 29th of December last to preside over the Civil Assize which commenced on the following day (30th Dec.) There were nearly 25 Cases on the hearing list From what we find, His Honour was not intended for a permanent stay here as he is to sit at Cape Coast and Saltpond as well.

Figure B34: Processed Evaluation Image 15 – The Gold Coast Leader

The Gold Coast Leader.

Vol. 1.
No. 78.

CAPE COAST, SATURDAY, JANUARY 3, 1903.

Price 3d.
Including postage 4d.

THE GOLD COAST LEADER.
PUBLISHED ON SATURDAYS

TERMS OF SUBSCRIPTIONS.
(Payable in advance.)

	Cape Coast.	Aboard.
Annual	10/6	14/6
Half Year	5/6	7/6
Quarter	3/	4/-

ADVERTISING SCALE.

Advertisements should be sent to the Office at Saltpond Road, at least three days before the day of publication.

Twelve lines and under	5/
Additional line	7/6
Birth, Death or Marriage	9/6

Special arrangements can be made for advertisements for longer periods.

All Communications intended for publication should be addressed to the Editor.

Business Communications and remittances either in Cheques or Post Office Orders should be sent to the Manager, "Gold Coast Leader" Office, Saltpond Road, Cape Coast, West Africa.

For copies of the paper please apply to the Stores of JAMES E. ARTHUR, at Chapel Square, Latin Street.

ADVERTISEMENTS.

Messrs. McLaren Bros. and Company.

of Manchester and the Gold Coast are prepared to let their well and complete furnished Rooms (modern style) at their Houses in Sekondi, viz "Didsbury," "African" and "Victoria" situate at the Market and Poase Road. Cooks and cooking utensils at hand.

For Particulars apply to the Cape Coast, Sekondi and Axim Agencies, and Head office at 2 Mount Street, Manchester.

H. REGINALD AMONOO,
Agent.

Cape Coast, Nov. 5.

PUBLIC NOTICE.

I the undersigned hereby give the public this Notice that I own all that piece or parcel of land situate and being between Koutorkaba and Aboom and bounded on one side by the road leading to Kwabotobay, a portion of which is included in the public road, on one side by the road leading to Aboom Wells, a portion of which also is included in the public road, which separates the property from Brown and Pietersen's and B. Kroff's plantations, on one side by J. P. Brown's land and on one side by James Fry's land and the Hausa Cemetery; which said piece or parcel of land was purchased 28 years ago by the late William Martin of Cape Coast direct from the late Head Chief Quasic Attah of Cape Coast with the knowledge consent and concurrence of his Headmen and Councilors in due form of conveyance which I now hold; and that any person or persons found trespassing on the said property or any part or parts thereof (except such outlying portions on two sides which now form parts of public roads) will be dealt with according to LAW.

her
CHARLOTTE x MARTIN.
mark

Cape Coast, 3rd December 1902.
Writer and witness to mark,
BANSERMAN MARTIN.

NOTICE.

We the undersigned for ourselves and on behalf of the inhabitants of the village of Aguna in the District of Elmina do hereby state for the information of the Public in general that as Kwamina Assankumah has been destooled he is no longer the Chief of that village. Kofi Essadoo has been installed in his stead and all communications in reference to that village or any lands belonging thereto are to be made to him as Chief in authority in that village.

Dated at Cape Coast this 3th day of December 1902.

their
KORNBAR BUSUMPIA X
QIOW ANAN X
KWESI ASSANKUMAH X
T. A. Davis,
Amankor, St.
Cape Coast, mark

Mr. Bernard Hicks

79 Mark Lane, London, has the pleasure to inform Clients on the Coast that he has been able to make arrangements with Messrs.

Mathews Wrightson & Co.

of 39 Great St Helens, London E C, a Firm of acknowledged standing and reputation, to take over the business carried on by him for some years past.

This Firm having a much larger Capital, and a very efficient staff of assistants, available for the working of their business, Customers will undoubtedly reap greater advantages than he has hitherto been able to offer, especially as regards the prompt shipment of Goods ordered.

As the new business will remain under his management any Clients may be pleased to favour the Firm will as heretofore receive his best and personal attention.

Thanking you for your esteemed commands in the past and trusting you may do a large and mutually satisfactory trade with the Firm in the future and soliciting the continuance of same

J. D. AAKI, Agent.

A Professional Book keeper many years connection, desires employment at Cape Coast or elsewhere For Salary &c., apply April 1903 Elliot.

TO ALL TO WHOM IT MAY CONCERN!

The public may please take notice that in accordance with the Documents and papers, prohibiting our Executorship to the Estate of the late James Quashie of Kwaman and Saltpond who died on the 3rd. Sept. 1901 at the former place, dated on the 8th April 1902 (which bears stamping date of 5th May 1902 No. 1096.02.) Having been given to us the undersigned by the undermentioned parties members of the relatives of the above named deceased, namely: Yaw Nkum, Amba Kuma, Ekua Osam, Amba Ekuwa, Ekua Aframba and Kwa Appiah of whose letter of administration were duly granted to us by the Divisional Court at Cape Coast since the 17th day of December 1901. We now give public notice that we are no more Executors and Administrators to the Estate of the above named deceased. In future all letters and legal claims concerning it must be sent to the deceased's relatives aforementioned. Dated at Anamboc this 11th day of December 1902.

W. B. B. QUAMSON
(Anamboc.)

DANIEL A. JACKSON
Saltpond

Former Executors and Administrators to the above named deceased.

GENERAL NEWS.

Mr de Graft Johnson gave a breakfast on Sunday the 9th inst at his new building (Kawauparda.)

The Masons in town celebrated the festival of St. John's Day on Saturday the 7th ult. to all appearance the Society is in a flourishing condition. Adieu!

The Harmattan season has been rather severe this year. Tradition tells us this is an indication of a prosperous year. So may it be. We trust it will help to allay the deadly effects of the Plague and divers diseases.

The Merry go round has contributed largely to the merriment of the season.

Some of the Bental people who were arrested the other day have been sentenced to imprisonment.

The Makwimbu Club had their yearly recreations at B. J. Kofi's plantation on the Christmas Day.

The inhabitants of the Market place and its vicinity are removing in view of the Victoria Park which will soon be in course of erection. The pity is the inadequate sums which are being paid to house owners, not sufficient all round, for the purchase of ground much more for building.

There was a ball at the Commissariat House on the night of the 30th ult. which from all appearance, came off nicely.

We regret to report the death of J. P. E. Orleans which took place at Accra on the 31st ult.

A correspondent writing from Obaasi reports a serious conflagration there that entailed heavy losses, besides laying desolate many buildings.

Another correspondent writes from Sekondi, who after remarking on an unfulfilled promise of the Sekondi Lightering and Hotel Company to endow the hotel there with a Managership, complains bitterly over the overgrown state of the "front ground of the Hotel premises" with "grass" thus creating it a nursing yard for "snakes and vermin" for feeding the guests. He wishes to call the attention of the Sanitary Inspector to this and suggests the cementing of the paved ground.

Pertinent to our last week's cutting from *Truth* touching a certain correspondence from a Mr. Ampiah of Frankfort Chambers & Co, Cape Coast, we again call the following from the same paper of the 1th December last, our comment on which we once more reserve.

"It seems that the letter from a Mr. Ampiah to a London Tradesman recently published in *Truth* is a sample of a very common class of communications from that part of the world. The business notions of the nigger trader are evidently somewhat chaotic. One of them writes to a correspondent whom he addresses as a "book seller and news Agent."

"Your name was highly recommended to me by a certain friend of mine that you are the best wood manufacturing, so that I want your Samples, Catalogue &c. &c."

"In another case two ingenious youths wrote that they had heard some black men were wanted to learn the book trade, and proposed to come on receipt of Tickets for second class saloon passage to England!"

With sincere regret we announce the quite untimely death of Miss Joanna Clara Thompson which occurred on the last day of the past year. She was the affectionate daughter of Mr. J. F. Thompson of the Treasury and niece of Rev. E. G. and Barrister Kofi Asaah. For sometime she had been ailing from some ailment which certainly never suggested the anticipation of this sad occurrence. For a girl of such amiable and respectful disposition to be cut off in the flower of her age is afflicting indeed and beyond what the human pen could describe. To the bereaved family we tender our sympathy sincere and unalloyed.

Kwodzi Mensah, a clever young Bricklayer, brother of Mr. J. J. Kofi of Aborin died suddenly on the 1st inst. It appears he was slightly indisposed

Figure B35: Processed Evaluation Image 16 – The Gold Coast Leader

for a few days. We tender our heartfelt sympathy to the bereaved family

Number of deaths for the week is registered at 9.

We deeply regret to have to record the death of Mr. Francis Chapman Grant which took place at the Salt Pond House this morning. The Masons and the Foresters attended his funeral which took place in the evening.

Mr. J. D. Abraham also lost a brother the day before (Friday). Anan he was called, a bricklayer. The bereaved families have our sympathies.

MOVEMENTS OF STEAMERS.

OUTWARD.		
	Due at Cape Coast.	
Cameroun	S. W. Coast service	Dec. 30
Sekondi	S. C. Express service	Jan. 5
Wari	Opobo service	" 8
Accra	Brass service	" 11
Burutu	Lagos Express service	" 12
Egwaaga	Opobo service	" 22
Coomassie	Brass service	" 25
Volta	S. W. service	" 27

HOMeward.		
Loanda	Brass service	Jan. 1
Bona	Opobo Service	" 4
Oisanda	South Coast accel. service	" 4
Pastoe	South Coast Express Service	" 9
Tarquah	South Coast Express service	" 23

SEKUNDI.

(FROM OUR CORRESPONDENT.)

We regret to report the death of Dr. Sanderson, who among other passengers from England by the S. S. *Tarquah* arrived on the 9th ultimo. The deceased touched the tropical soil only within an hour and a half, and died unexpectedly. His bereaved people have our sympathies.

I was startled from bed at 8 p. m. the other day by the roar of a cannon and at early dawn the "Vile Boat" for which that signal was made, turned out to be a craft. The officials who hurried to the beach at 4.30 that morning with the hopes of welcoming His Excellency, the Governor on board the *Philippine* were not only sadly disappointed, but rightly served, the signalman having been sufficiently pressed to do that duty, and as a matter of fact His Excellency did not land here as was expected.

The Case *Rex v. Grant* terminated in the acquittal of the accused on Tuesday the 16th December last. We hear a fresh warrant has been issued against Grant for a second set of felony and the police are fishing up every quarter of Sekondi for the young man. As the case stands there is every reason to believe that it is the action of a secret Agency. But it is a pity that people can be found to be so silly and ignorant as to believe all such trash and follow up the instigation, purely sentimental, of simpletons and avengers who simply do that to give "Roland for an Oliver."

On Sunday the 28th ultimo, an unusually great number of people were arrested for committing nuisance about some remote portions in the precincts of the town. The police, as they call themselves, are but scavengers disguised like the dew as borrowed plume. The increase in population demands in a permanent way an adequately good number of latrines after the fashion of those at Accra and Cape Coast. This should be supplied before a stop to all this nuisance in the outskirts of the town could be reasonably effected.

Of late there have been frequent interruptions in the Telegraph lines, but during the week we have had enough to sicken our souls. From whom must we ask the cause of this frequent unpleasant occurrences? If not from the Foreman of Telegraphs, we may rightly suggest to the Government the necessity of a branch cable being laid connecting Axim and this place, between which most of the interruptions occur.

A party of railway officials headed by the Chief Resident Engineer left by train this morning for the interior. The expedition, as understood is to arrange matters as regards traffic on the line now opened to Obassie. A very noble work!

CHAMA.

(FROM OUR CORRESPONDENT.)

The local School was vacated on the 15th ultimo for the Christmas holidays.

A burglary was committed at the store of a *Taylor Lawrence* on the 23rd ultimo. The thieves have not as yet been discovered. We would suggest that the authorities provide this place with more constables to guard the town at

nights. What can three policemen do at such a densely populated town?

We regret to learn of the indisposition of the Superintendent Minister of this Circuit. We wish him a speedy recovery.

The Sunday School work here has not been lacking in interest. Mr. T. M. Bilson its indefatigable Superintendent is working assiduously and consequently the work done by the Scholars is of a pleasing and commendable nature.

The Chama Wesleyan Mission House is a model of what a Tropical Mission premises should be.

It is reported that a branch of the Sekondi Railway will soon be laid this way. We hope this will prove to be a true report.

ELMINA.

(FROM OUR CORRESPONDENT.)

Messrs F. & A. Swanzy are putting on some temporary repairs to their old Coal Shed at the back of the Castle.

As yet no relief has come for Dr. Browne. He does not seem likely to sit over my more cases in the D. C's Court.

We understand Dr. Derwent Waldron is to succeed him.

It is said that nearly fourteen vacancies exist at present for doctors on this Coast, the holders of the posts having resigned because they do not wish to be humbugged with managerial work. All the Cases in the D. C's Court have been adjourned *sine die*.

Mr. Mattee died on the 18th of last month.

The S. S. *Cameroun* is due here on the 9th; according to the latest arrangements cargo boats in the Southern Windward Service are to make the trip between Liverpool and this port in thirty nine days—an improvement this is.

ACCRA.

(FROM OUR CORRESPONDENT.)

The Juvenile Branch of the Free Gardeners Lodge (*Friends of the Gardeners*) held its second Anniversary on Thursday the 25th December last by a Thanksgiving Service at Holy Trinity Church at 2 p. m., the Rev. Hastings Kelt E. A., Colonial Chaplain Officiating. After the service the members paraded through the town with a Band accompanied by Bro's John Arthur, A. G. Peters, L. R. J. Ruttman, John Amartiafio (adult members) and many ladies amongst whom were: Misses Marian Bruce, Amelia Bruce, Evans, Victoria Hesse, Lily Jane Biney, and Floral Quartet. They retired to Asorfor House (Bro. John Arthur's) where a sumptuous "Fork and Knife" Tea was served.

The *Accra Races* under the Patronage of His Excellency Sir Matthew Nathan K.C.M.G., R.E. came off splendidly on Boxing day and the day following. This drew many spectators from *James & Uscher Towns* and *Christiansborg*. Mr. T. E. Fell, the rider of Major Kison's *Bekwai* and the winner of the Governor's Cup with £20, must be specially congratulated.

Mr. C. J. Bannerman's *Katowere* won the Maxwell Memorial Cup with £10. The Governor's *Lessee Product* and *Greater Product* won many prizes. The Trilly, the famous runner and winner of many prizes, owned now by Mr. Bonso Bruce, lost all entrances this year.

The tower in course of erection to the Holy Trinity Church is nearing completion. The *Harmattan* winds have set in and have been blowing fiercely.

Mr. H. E. Barker, Agent of F. & A. Swanzy arrived here from Cape Coast by the *Burutu* on Christmas Day.

EDITORIAL NOTES.

To the fashionable and the conventional the festive season has entailed great expense. Here and there, there is no end of exchange of gifts in every shape—in every form.

Perhaps there has been no Christmas in which there have been so much animation and joy and pleasure as the one which has just closed. Young and old, great and small, the doctor and the fool—all have joined in the universal jubilation.

And so we are upon the threshold of the New Year. The old year the year 1902 has

flown into the bourne from whence it will never return, and with it, its joys and sorrows its failures and successes, its disappointments, its bereavements and losses whatever we have done and suffered. Still there should be no reason to despair. Now is the time to profit by past experiences, and to be better nerved to face life's struggles. Withal let us have hope hope which is much needed in the stress and gloom of whatever betide.

But for all that we will not omit mentioning the fact that the old year had been a very sad one to the community; young and old, rich and poor, have all been called to the world unknown.

To all who have suffered during the year, the *Leader* tenders its heartfelt sympathy, and prays Him the friend of sorrows to grant them hope and consolation.

But while tendering to all our friends far and near the compliments of the season, we take the opportunity to thank our subscribers and other sympathetic friends who have testified their appreciation of our services by paying up their dues promptly and regularly. It is our sincere hope that there will be a stimulus to greater energy and determination for prosperity and success.

Thanks to goodness! Our detractors before this paper was launched, predicted but a short career for it, many were loud in the vain assertion that it would not reach a successful career nay, that it would not survive a few days of its existence. But, be it to their discredit, the "Gold Coast Leader" has had the happy fortune to see these gloomy prognostics belied. The "Leader" yet lives. It has not given up the struggle for existence. It means duty and given duty, its destiny rests with the Great Director of events. Good bye!

About four years ago a dignitary of the Church of England speaking at a meeting held at Manchester by the members of the Society formed there for the *Protection of Native Races* said: "There were three things they were bound to endeavour to aim at. First we should aim at justice in every part of our Empire without reference to colour or creed. Next we should feel that we were charged with the duty of bringing all the best influences of civilization for the benefit of all those populations which belonged to our Empire. But our greatest responsibility of all was to endeavour to carry into those populations those blessings of the Christian life which are the greatest blessings in our own homes and lives."

When we look at how we are governed out here, when one sees what is going on around us when we observe the doings of the representatives of this Empire the Bishop speaks of, what a vast difference there seems to exist between the actions of these men and the noble sentiments expressed here? Is it the fault of the men or the policy they have to pursue out here that this difference we speak of exists? Can there be no remedy if we must be made willing, and cheerful subjects of the British Throne, that is, if we are to be accounted as part of the Empire.

We do not consider the treatment which has been given to the Bentsir people, arrested the other day, fair or right. This handful of men have been fined £70, or imprisonment, what for, we cannot tell. How easily the Government chest can be filled. But what is their charge. And we are told that the officer sent to arrest them in the way fired into them. This is a serious affair and we hope His Worship Mr. Peregrine will look into it.

The report goes that the men refusing to pay this amount (fourteen of them) were starved, probably to make them pay. Food is not supplied them nor would their people be allowed to take food to them. The observant ones among us think that the treatment now given to the natives is very hard and most unfair as compared to what it used to be. It is because more money is wanted for travelling and duty allowances or there is an urgent need for prison labour.

Really what is going on now in these days is most un-English.

It is true that "economy is no disgrace," but that economy which makes Government Offices stand in sore need of stationery is most disgraceful especially if we look at it at the way, fines (and heavy fines too) are inflicted for every mortal thing, no matter how trifling it may be. Is Governor Nathun also likely to disappoint us as a Governor? What is there on The Gold Coast which works such changes in our Government.

Last week we reported in our News column, that Dr. Murray had Mr. Aysnou arrested for shooting at some pigeons in the front of his own house, and the doctor himself has a regular daily shooting at them. It is always an unpleasant task for us to call into question the action of an official, and it is far more so for us on this occasion to do so when it is the doing of one whom we have always respected and considered to be one of those officials who command our respect. Why did the doctor have the gentleman arrested? Does he hold a monopoly over the birds at the Connor's Hill, or hold a license for them. It seems that any official can ask for the arrest of any one he puts into his head to have arrested.

GOVERNOR NATHAN AND SEGREGATION.

Anent the West African governors it is much to be regretted that Sir MATTHEW NATHAN who had made quite a reputation at Sierra Leone for practical sympathy with the native, should have deviated from this policy and taken up the idea of segregation which is opposed in principle to the basic idea of government. Government covers all and places all upon an equal plane, while segregation separates a particular class for special treatment and is in direct conflict with the equality of treatment idea. The fact that is no government which true to its tradition would undertake to set up a plan of segregation and the segregation scheme adopted on the Gold Coast is only another form of the Jim Crow arrangement in the United States. A policy of the kind can hardly be esteemed helpful in the way of consolidation as it is bound to produce the unfavourable impression with the native that the government means to set up a line of discrimination between its constituents. Such an idea is not calculated to inspire confidence and loyalty with the people, and the governors who are toying with segregation are not perhaps aware that they are initiating a policy full of political significance. It is not by a policy of segregation that Imperial interests are promoted in West Africa, and British rule consolidated, but by a policy of understanding the native and getting into touch with him and inspiring his confidence.—*Lagos Record, Dec. 27.*

THE ARRIVAL OF GOVERNOR KING-HARMAN.

The hearty welcome accorded Sir KING-HARMAN by the people of Sierra Leone on his return from furlough testifies to the fact that in some way or other Governor KING-HARMAN has acquired a strong hold upon the affections of the people. It is the prerogative of a governor, and indeed ought to be his first object and duty to acquire such a hold, for it shows more than anything else that he has been administering the government wisely and well in the interest of the governed. The people do not take to a governor for nothing but are attracted by the sympathy which he evinces in their welfare expressed in the practical form of a policy directed to promote the interests of the people. It is not given to every governor to inaugurate such a policy, which is dictated by a deep regard for the governed. This regard is the test which the native applies in the adjudgment of the new governor whose every act and action as relating to the native of whatever degree is watched with the closest scrutiny, and put either to the governor's credit or to his discredit. In this way a general opinion is formed and the governor who shows by his policy and treatment of the native that he is influenced by an impartial spirit and an honest and genuine desire to do justice to all alike, will not fail to acquire a strong hold in the affection of the people. The greeting accorded Sir KING-HARMAN stamps

him as a governor of the right stamp, and one whom the people of Sierra Leone believe in and can rely upon, and so his work of administration will be rendered easy as well as effective because it will be a co-operative work, the people working with the governor and the governor with the people. No doubt nor discord can enter into such a plan of administration for the simple and sufficient reason that the desires and needs of the people constitutes its inspiration and object.—*Lagos Record, Dec. 27.*

REUTER'S TELEGRAM.

Dec. 26.—Venezuela has agreed to submit the dispute to the Hague Arbitration on condition that the blockade is raised and fleet restored. Portion of the Somaliland force has proceeded to Obbia, Italy agreeing to facilitate disembarkation.

TO CORRESPONDENTS.

Intelligent correspondence on matters of interest touching the welfare of the Country is invited. We do not however hold ourselves responsible for the views or opinions that may be expressed by our correspondents.

Anonymous letters will not be attended to, or returned. A non-descript or initials should be given if it is desired that the real name shall not appear in the paper.

Name and address must accompany all communications as a guarantee of good faith.

Communications must reach the Office not later than Thursday.

Rejected communications cannot be returned.

Communications to which replies may be expected must be accompanied with Stamps.

The Gold Coast Leader.

CAPE COAST, JAN. 3, 1903.

A NEW YEAR'S GREETINGS.

For the first time the *Leader* has to greet its readers, of all shades and characters, with A HAPPY NEW YEAR. The year of grace one thousand nine hundred and two has just left us with all we were and did, travelling to the bourne from whence ye return not. A solemn thought this. With us as individuals or citizens of this Country, with those of us who are called upon to play an important part in the making of this Country, socially or morally, the year is gone with all our deeds (or misdeeds) shortcomings, or dereliction of duty.

We may as well consider such thoughts as these: As a native of the soil, or otherwise, have I done my duty, according to my position, influence or knowledge? Have I served myself, my people and Country as I should. Whatever the answer to these may be, 1902 has taken it along with it, to Him whose we are, and to whom all in the flesh are accountable.

To day we stand on the threshold of another year—1903! None of us has travelled this way before. Is it likely that if spared, we shall go over the same road again in all that we may have to do, or that may be expected of us? Or are we going to retrieve lost opportunities? "The times are hard." That is the cry now. What are we going to do then. Trading or "concessioning" should not and ought not to be the only business we should interest ourselves in, we are to *live* and not merely *exist*. If we must rise as a people refined labour as it were, but hard, *honest* labour, doing with all our might *whatsoever* our hands may find to do. To think that to be a gentleman, we must all be clerks, because we have seen a School room is a mistake which is fast ruining our Country. It is high time we gave manual labour some attention, and the other industries in the Country claimed our serious attention. Even those who are engaged in trade are ever crying, Trade is dull, and yet they will not stir, to see the phase of things altered. How, it may be asked, and the finding out of the "how" will solve the problem. The only charge often laid at our door by those who look at us with the eyes of twenty centuries' civilization is laziness. We rightly resent this. As a people we are not, but when we must depend on them entirely for everything and allow ourselves to be wholly

anglicized, lazy people we shall always be to them. Think this out for yourself. Heaven, helps those who help themselves is a trite saying, but the truth it enunciates is as old as Methuselah.

Then the politician: we must admit, that the political atmosphere of this Country, is inimical to the growth of any one who may interest himself in the politics of the Country. Everything is against him, and he becomes at once a marked man. Men whose aims have fought for their liberty, and they themselves delight in seeking for their rights are able to consider a person who does the same thing for his Country, a disturber in Israel, or impediment in their way, one whom they may strangle at the least opportunity, forgetting probably, that patriotism exists as surely in the breast of the black as it does in the white or in the Asiatic. But He who defends the cause of the RIGHT, and who defended the cause of their fathers, lives, and will defend ours, however gloomy and dark things may seem, for he is no respecter of persons—and we may add, no respecter of races for He made them all. Might may best right, but Truth will prevail. All and everything depend on ourselves. Who does not know that in this Country things are done which cannot be dreamt of in any of the Colonies under the system of the Crown Colony Policy? Why this high handedness which is displayed in everything done by the Powers that be, with us? Why this oppression that has been existing so long amongst us, and is now riding red-hot in our midst? Because we are against each other, ourselves: because the foxes, the little foxes, (the native informants) spoil our wine. We cannot tell what amount of mischief these have done and are doing in the Country. But we judge no one. They have judged and are judging themselves by their own actions. But because our movements are closely watched and reported on, because our doings are always grossly misrepresented, because cart-loads of falsehood are doled out to our disadvantage, only to serve as stepping stones for them to, rise in the favour of Milord so and so, or Sir Knight, or his armourbearer, when we are not actuated by any ill feeling against any one or evil intentions in what we do, but to see that we are not unnecessarily trodden upon, shall we be disloyal to the Fatherland? We are: always talking of oppression, and finding fault with this and that, what else can it be when we are so dead to our own interest, and such traitors to ourselves and Country. We wish for ourselves a better ("New") year.

Why cannot this year witness a deeper, and keener interest, in our politics, education, and industry? It is true there seems to be a policy existing amongst us which has for its watchword, "Down with the blacks" in the governmental or mercantile world, it is true that our worse enemies are from our own ranks, it is true that we see no streak of light in our dark cloud, and if anything, things are getting worse and worse, whilst they are represented differently elsewhere which makes us to appear to exist for nothing else but to be everlasting croaking and finding fault, and it is also true that it seems that things shall ever remain as they are of which we are always complaining but we ought not to despair of anything, but rather be more united, and true to ourselves and Country, and seek not to win the favour of any one; we do not ask you to set yourself against any one, we ask you to serve your day and generation better this year, and there are many ways through which you can do this. A HAPPY, AND PROSPEROUS NEW YEAR to all!

SCRUTINER.

Once more the solemn tinkling of the midnight bell reminds us that we have been immersed into another year. The year 1902 with all its advantages, glories, blessings, woes, temptations, happy and mournful events has passed away, gone, gone for ever and rolled into eternity! Whatever we did whether moral or immoral is past, realising, mourning or redeeming. We are not to look mournfully into the past as it comes not back again.

Figure B37: Processed Evaluation Image 18 – The Gold Coast Leader

But though we are not to look into what has been perpetrated and gone, it is not required of us to continually sit unconcerned in this chronic state of inactivity. But this much admonishes us to endeavour to lead such lives that each succeeding day may seem better and more profitable to us individually and to our generation.

We have surely left undone those things which we ought to have done both in our religious, political and social duties. And on the other hand we have not left undone such enormities as indulging in petty prejudices, willingly and unwillingly betraying day by day our nation, in exhibiting marked and personal indifference towards our political interests, and in engaging in profitless spitefulness and woful capitivity.

How many were with us in the field during the past year's bivouacking we cannot estimate, but the fact certainly brings to our remembrance, the recollections of many dear ones whose company and faces we shall never have the pleasure of sharing and seeing on earth; for since the divine edict went out—"Dust thou art, and unto dust shalt thou return," it has had its vigorous operation, making no distinction between great and small, rich and poor, the man of many surroundings and the orphan—For it is an edict that must pass on all men.

Whatever the year 1903 has in store for us is a mystery known only to the Great and merciful Creator, the Steersman of our destinies. But we must surely be vigilant as become men waiting for unexpected event, strange apparitions and unpleasant occurrences, especially in this Gold Coast of ours, the land of strange and unexpected visions.

At the onset we must wake up from our long and miserable lethargy, if we must achieve some good reform this year. Our fathers in their time played their part well and we should for shame play our part well and as much as lies in our ability, so that we might leave foot-prints worthy of the tread of our immediate successors, and at the end of the year may be able to speculate conscientiously "I have done what I could during the past year."

And now, dear reader, I wish you a happy and prosperous New Year.

Yours faithfully,—Aroo.

THE FISHERMAN OF CHAMA

From time immemorial, the inhabitants of the fishing town of Chama on the windward coast, have been regarded by their brethren of the other towns as not worth their salt, on account, it is said, of their extreme ignorance and unparalleled simplicity.

Tradition tells us, that in the days of the Fathers, a plain honest citizen of this romantic town, a fisherman by profession, being desirous to smoke at a rather late hour, and not having the necessary to light his pipe, went out in search of a spark of fire. After a great deal of inconvenience and trouble, he succeeded in obtaining a spark of fire with which he lighted his pipe, and commenced smoking away furiously. Whilst enjoying his pleasant puff in that midnight hour, he reflected on the trouble he had undergone, for the little spark of fire, and at a last burst out in a soliloquizing tone, "My word what a world of trouble I have gone through at this very late hour for this little spark of fire. That woman at the other end of the street, to whose house I at last resorted, was very nigh taking me for a burglar, and where would I have been now? However, I have succeeded in proving the truth of the old saying 'where there's a will there's a way.' To prevent the same trouble as a future similar occasion, I will not throw away this little spark of fire, but will keep it very carefully, and I have not the least doubt, it will serve my purpose for, at the very least, the next two weeks to come." So saying, he picked up the spark of fire, and carefully wrapping it, in a piece of cloth, hid it for better security in the thatch-roof of his shanty. He was now perfectly satisfied with himself, and with a light heart, proceeded to the beach, launched his canoe, and paddled off to exercise his vocation. In a few minutes, turning his eyes towards the town, he perceived what appeared to him at the time to be a big bonfire. "Oh my! I never would have believed it," he exclaimed. "This little spark of mine has been the means of producing this big fire. For the next twelve months to come, there will be no necessity for late hour smokers to go out at the dead of night in search of a spark of fire. I have rendered a boon to my brethren, and they ought to express their indebtedness to me, by presenting me with a tight little mace and a set of nets." Without giving the subject any further attention, he calmly continued his fishing till day-break, when, having made a fine haul, he paddled towards the shore. On nearing the shore, he was surprised to perceive nearly the whole population of the town assembled on the beach. A little reflection assured him that

they had assembled there to do him honour for his beneficence to the community, and to smokers in particular. With an assumed air of consequence he lauded; but unfortunately, vain are human expectations.—Western Echo, Oct. 23, 1886.

LETTERS TO THE EDITOR.

[We regret that many of the letters we publish have had to be cut down. Correspondents who desire to see their communications printed as sent must bear in mind the limitations of our space, and that we can seldom find room for letters exceeding 500 or 600 words in length.]

To the Editor, Gold Coast Leader.

Dear Mr. Editor:—Kindly allow me a space in your valuable Journal to disclose to the public the cause of the early closing of the Otar convention which the Anamaboe correspondence attempts to hide not thinking that the public could judge otherwise by the portion of the correspondent which runs as follows:—"The absence unavoidable or otherwise, of the majority, however had a tendency to complicate matters but those present after much consideration arrived at a resolution."

Those present being the King of Anamaboe and Chief of Ayedu insufficient to form a quorum were indeed complicated in the absence of the majority and arrived at no resolution though the correspondent alluded to one in his last paragraph—

The Ayedu chief unfortunately for the correspondent let out the names of the King of Anamaboe and himself as the inventors of the Otar convention, at Crematative and made matters more suspicious that King Otar's messengers were waiting for him at Ayedu to hear the glad tidings which is the resolution of the Borbor Kings against the King of Abura on their behalf. It is his claim of the Assin land, hence it was a disappointment to them in consequence of the non-attendance of the Borbor Kings, yet they shall meet again.

Both the correspondent and the Ayedu chief were anxious to omit mentioning the valuable hints they had had the D. C. at Salt Pond had been ordered to retire them at once, the actual cause that hurried up the closing of the convention. If the correspondent still insists that some resolution was arrived at, circumstances will prove such resolution to have been made between the heels and the toes of the King and chief and it ended in vagaries of sounds rocketing over the tops of gigantic shading trees which the correspondent artistically described at Otar and as much as to say such resolution cannot be recorded in the volume of their leaves in addition to the unfolded history of the place when the seats of four Independent and Senior Kings were vacant.

The correspondent will benefit the public if he would contradict Ayedu chief's statement by mentioning the very name of the King to whom the Borbor Kings previously gave their consent and approval to the meeting and its object as appeared in his last paragraph.

Now let me turn to the Salt Pond correspondent who seems to believe in the promises made by the late Doctor Coker that the Ayedu chief shall be promoted to a king as soon as the thatch roof on his house is replaced with iron, otherwise he is wrong to honour the chief with title of a king and I am hindered this was one of evil cause which obstructed the attendance of the Borbor Kings as they conceded the idea that the meeting was intended for Borbor chiefs and not kings, the authority cannot help styling the Kings on this Coast as chiefs to avoid complications of the natives by calling real sub-chiefs as Kings.

The Superior Chief of Domnasie was very considerate to refuse the invitation under the plea that it is not an ancient custom that the King of Anamaboe convenes meeting and invites him, therefore if chief Ordon of Imposedadzi hears of the movement of the King of Abura to the Otar convention he may let him know, that he may go and sit near him.

Thanking you exceedingly for this waste of your valuable space.

I beg to remain

Yours truly,—Orsin Owl.

Otar, 23/12/02.

Dear Sir:—In your issue of the 13th December last I find Mr. Champion writing in reply to my letter of the 15th November last. I must say Mr. Champion is Dixcove's greatest enemy. I am a pure Dixcovean, born at Dixcove and I would be silly to run my Country down if all what I said was untrue. May I personally and on behalf of the parents be satisfied that the present condition of the Day School is satisfactory? I repeat again that the present condition of the Dixcove Singing Band, Sunday and Day Schools is very shameful and pitiful. Mr. Champion may be quite a stranger otherwise in comparing the condition of the past Singing Band, Sunday and Day Schools, especially in the golden days of the Rev. J. B. Graham, to that of the present he would arrive at a sad difference. Why can't the Wesleyan authorities ap-

point one man whose business would be to go round the whole circuit at least once in six months, and see how their work is going on although they have faithful men in their places? Well, if I credit Mr. Champion with that point viz.—"Messrs Boyle and Godecke have distributed prizes and have recently ordered some more beautiful books to distribute among its scholars" on which he stands to think that the Day School is in a proper state, what most I put down for the Singing Band and Sunday School. Thanking you for the valuable space you have once more allowed me.

I am, in readiness

Dec. 1902.

J. P. Mensah.

Dear Mr. Editor:—May I understand that the 'Gold Coast Aborigines'—that admirable organ which boldly came to the rescue a short while ago, has been allowed to collapse through want of attention and support by its Proprietors—The Aborigines Rights Protection Society of the town, and that up to the present day the Editor and his staff have not received their wages for their services. This, in all consciences is a crying shame rather unfair—to use a moderation, with all due deference to the honourable and influential members. The immortal Archimedes once said, "Give me whereon to place my lever and I will move the world," and so it is that that society is visionary, uncalculating and impractical withal which attempts to accomplish great end with means that lack efficiency, energy, love and purpose, a purpose once fixed then death or victory. These are the qualities as the very foundation of stability and success for any true society, minus which no society, no matter how influential or influential the members thereof, is worthy of a name. A glowing and high sounding name there may be but "what's in a name?" Without that love and true determination which should at once be the standard and governing principle of society in its true and pure sense, all is nothing but the "baseless fabric of a vision that leaves but a wreck behind." The Aborigines Rights Protection Society must choose one thing or other—either sits to live or to work heartily and honestly for the country, the race, and God. This chat of spurious patriotism must be blown away. We have too many important issues and interests at stake to afford room for selfishness, canting hypocrisy, and fanatical in matters affecting the material physical and intelligent well being of the country. Ingratitude, more than anything is responsible for this social blunder. Let the members be given to understand the actual state of things and fathom the great responsibility that devolves upon them as a Society. This alone will doubtless operate to a reversal of the present injurious state of things.

Many thanks for the space allowed.

Yours truly,—A. B. STANFORD.

Cape Coast, 2nd. Dec. 1902.

AXIM IMPROVEMENT.

Dear Editor:—Permit me a short space in your valuable column for the insertion of my observation on Axim improvements.

Going along the Street the other day, I was forcibly impressed with this fact that Axim bids fair to be the third important town in this colony. Notably among the so many things, which gave me this impression is, my being ushered into a rather neatly fitted Store of medicines properly known, or called "Druggist Shop" situated in Upper Town, facing Mr. R. T. Arhin's big house.

Upon enquiry, I was informed, that this store has been opened and kept by our friend and citizen Mr. T. Hanson Quao, recently certificated dispenser in the public service, but who has now resigned the Government and obtained a Druggist License to sell drugs in Axim.

Taking many things into consideration, it would most reasonably appear to even the most superficial observer that this druggist shop is one of the best things that Axim can ever enjoy, and will in time if well patronized, be a source of incalculable blessing to the Community. I say it would be a boon and a blessing, taking the fact of a town like Axim teeming with so many hundreds of lives the European element not excepted, with only one medical man to attend them, and that one a public officer, with so many restrictions in connection with his service to the community at large.

If therefore, there is a druggist shop at hand, where a simple turn at the corner will bring you readily what little stuff you need to patch up an ailing, alleviate a pain and obtain relief sooner from whatever suffering you may be smarting under. Then also is the fact that the manager and dispenser of these drugs we all know well, that he is thoroughly qualified for the place, and one that one can place reliable faith in, as we have known him during his official career his well regulated habits, his untiring zeal and careful attention to his work, his rather reticent and reserved manners which served on the contrary to proclaim his ability and trustworthiness, and endeared him to the hearts of many who had to command his services; therefore, I say, these facts should guarantee the confidence, court the attention of the public to this well-timed store, and support the assertion, that a "druggist shop" in Axim should be a boon and a blessing.

I do not know whether or not Mr. Quao intends to advertise the different kinds of drugs in his store,—but whatever he may do, this much I know, that the store contains all that Axim may want for the present, and the arrangements and qualities of the medicines are sufficient advertisement to all. "Come and see and be satisfied."

Thanking you for the space allowed.

Yours truly,

Axim, Nov. 1902.

John Tristram.

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Figure B38: Processed Evaluation Image 19 – The Gold Coast Leader

Appendix C

This appendix contains the three MATLAB[®] code files and the R code file. The same of files and folders have been changed in the code extracts in order to keep the code clean and unpersonalised.

C.1 MATLAB[®] code files

Please note that the code in these files has been simplified slightly for ease of reading. The code files available on the CD includes additional code for running multiple batches of data.

```
%Read in the MSERs to be classified
dataFile = 'MSERs.xlsx';
dataMatrix = readtable(dataFile);

%classify the
yfit = trainedClassifier.predictFcn(dataMatrix);
classes = cell2mat(yfit);

% make the output file
mkdir('Path', 'Folder');
dataFileName = strcat(directoryPath,runDirectory, '\answers.txt');

fid = fopen(dataFileName,'w');
fprintf(fid,'%c\r\n',classes);
fclose(fid);
```

Figure C1.1: Code Extract - GenerateMSERs.m

```

dir_newspaper = 'ImagesDirectory';

%read in the image list
files_newspapers = dir(strcat(dir_newspaper, '\*.tif'));
%loop through images:
% - save MSER configuration
% - save image

%make run directory
formatOut = 'mm_dd_yy_HH_MM';
DateString = datestr(datetime('now'), formatOut);
mkdir(dir_mser_runs, DateString);
dir_currentRun = strcat(dir_mser_runs, DateString);

%make run details file
filePath = strcat(dir_currentRun, '\Run_Details.txt');
fid = fopen(filePath, 'w');
fclose(fid);

%print out regions for each image
for file = files_newspapers' %files_as'    CHANGE T to N
    %make a folder for the current image being processed:
    [~, imageName, ~] = fileparts(file.name);
    mkdir(dir_currentRun, imageName);
    imagesDirectory = strcat(dir_currentRun, '\', imageName, '\');

    %generate the MSERs
    colorImage = imread(strcat(dir_newspaper, '\', file.name));
    bAndWImage = im2bw(colorImage);
    swoppedImg = bAndWImage < 1;

    props =
    regionprops(swoppedImg, 'Area', 'Image', 'MajorAxisLength', ...
        'MinorAxisLength', 'Orientation', 'PixelList');

    pixlist = {};
    for i = 1:numel(props)
        pixlist = [pixlist; int32(props(i).PixelList)];
    end;

    mserRegions = MSERRegions(pixlist);
    a = mserRegions(1).Axes;

    CC = bwconncomp(swoppedImg);
    s = regionprops(CC, 'basic');
    [features, validPoints] =
    extractFeatures(bAndWImage, mserRegions);

    %save the main image with all of the MSERs on it
    fig = figure;
    imshow(swoppedImg)
    hold on

```

```

plot(mserRegions, 'showPixelList', true, 'showEllipses', false)
title('MSER regions')
hold off

imagefilename = strcat(imageName, '.png');
saveas(fig, strcat(imagesDirectory, imagefilename));
close(fig);

%save the main image with all of the ellipses on it
fig = figure;
imshow(swoppedImg)
hold on
plot(mserRegions, 'showPixelList', false, 'showEllipses', true)
title('MSER regions with ellipses')
hold off

imagefilename = strcat(imageName, '_ellipses', '.png');
saveas(fig, strcat(imagesDirectory, imagefilename));
close(fig);

%save MSER feature file
dataFileName = strcat(imagesDirectory, 'data.csv');
fid = fopen(dataFileName, 'w');
fprintf(fid, [ 'RegionNumber' ', ' 'Major_Axes' ', ' 'Minor_Axes'
', '...'
'Orientation' ', ' 'PixelCount' ', ' 'Class' '\r\n']);

fclose(fid);

%save individual region images and thier data to the file
mkdir(imagesDirectory, 'Individual_Regions');
dir_indi_regions =
    strcat(imagesDirectory, 'Individual_Regions\');
for j = 1:length(mserRegions)
    %show msers
    fig = figure;
    imshow(swoppedImg);
    hold on
    plot(mserRegions(j,1), 'showPixelList',
    true, 'showEllipses', false);
    hold off

    imagefilename = strcat(num2str(j), '.png');
    saveas(fig, strcat(dir_indi_regions, imagefilename));
    close(fig);

    fid = fopen(dataFileName, 'a');
    axes = msersRegions(j).Axes;
    major_axes = num2str(axes(1,1));
    minor_axes = num2str(axes(1,2));
    orientation = num2str(msersRegions(j,1).Orientation);
    numberOfPixels =
    num2str(length(msersRegions(j,1).PixelList));

    fprintf(fid, '%s,%s,%s,%s,%s,%s\r\n', ...
        num2str(j), major_axes, minor_axes, orientation, ...
        numberOfPixels, 'N');

```

```

        fclose(fid);
    end;%for j = 1:length(mserRegions)
end;

```

C1.2: Code Extract – ClassifyMSERs.m

```

files_newspapers = dir(strcat(DirectoryOfImages, '\*.tif'));
directory = 'ClassifierOutput';
classifiedMSERsdataFile = strcat(directory, '\MSERs.xlsx');
lines = readtable(classifiedMSERsdataFile);
lines.ImageNumber = categorical(lines.Image);

%% read in images and get regions
for file = files_newspapers'
    %make a folder for the current image being processed:
    [~,imageName,~] = fileparts(file.name);
    %lines holds a table of all classified MSERs
    imagesLines = lines(lines.ImageNumber == imageName,:);
    % remove N (noise) elements from the image
    imagesLines.Class = categorical(imagesLines.Class);
    %save the character lines
    rowsToKeep = imagesLines(imagesLines.Class~='N',:);
    %select regions that are to remain in the image
    regionIds = rowsToKeep.RegionNumber;
    %generate the MSERs
    colorImage = imread(strcat(dir_newspaper, '\', file.name));

    %do mser on image (white text on black background)
    bAndWImage = im2bw(colorImage);
    swoppedImg = bAndWImage < 1;
    props = regionprops(swoppedImg, 'PixelList');
    pixlist = {};
    for i = 1:numel(props)
        pixlist = [pixlist; int32(props(i).PixelList)];
    end;

    mserRegions = MSERRegions(pixlist);

    %remove regions to keep
    mserRegions(regionIds,:) = [];

    % display remaining regions
    for i = 1:size(mserRegions, 1)
        pixels = mserRegions(i,1).PixelList;
        for j = 1:size(pixels,1)
            y = pixels(j,1);
            x = pixels(j,2);
            bAndWImage(x,y) = 1;

        end;
    end;
    figure;
    imshow(bAndWImage)
    filename = strcat(directory, '\', imageName, '.tif');
    imwrite(bAndWImage, filename);
end;

```

Figure C1.3: Code Extract - ProcessNewImages_RemoveNoiseElements.m

C.2 R code file

```
#install.packages("readr") #only reuired once on your system

#install.packages("Rcpp")

#install.packages("stringdist-package")

library(readr)

library(stringdist)

imageNumber <- 19

# READ IN CORRECT TEST FILE

correctedFileName = paste('C:\\
OCR_output\\TestOCR\\',imageNumber, '.txt', sep="")

print(correctedFileName)

correctfile <- read_file(correctedFileName)

correctfile <- tolower(correctfile)

correctfile <- gsub('\\r\\n\\r\\n', ' ', correctfile,
ignore.case = FALSE, perl = FALSE, fixed = FALSE, useBytes =
FALSE)

correctfile <- gsub('\\r\\n', ' ', correctfile, ignore.case =
FALSE, perl = FALSE, fixed = FALSE, useBytes = FALSE)

correctfile <- gsub("[[:punct:]]", '', correctfile,
ignore.case = FALSE, perl = FALSE, fixed = FALSE, useBytes =
FALSE)

correctfile <- gsub(" +", ' ', correctfile, ignore.case =
FALSE, perl = FALSE, fixed = FALSE, useBytes = FALSE)

print(correctfile)
```

```

# READ IN ORIGINAL FILE

originalFileName = paste('C:
\\Original_OCR\\',imageNumber, '.txt', sep='')

print(originalFileName)

originalfile <- read_file(originalFileName)

originalfile <- tolower(originalfile)

originalfile <- gsub('\r\n\r\n', ' ', originalfile,
ignore.case = FALSE, perl = FALSE, fixed = FALSE, useBytes =
FALSE)

originalfile <- gsub('\r\n', ' ', originalfile, ignore.case
= FALSE, perl = FALSE, fixed = FALSE, useBytes = FALSE)

originalfile <- gsub("[[:punct:]]", '', originalfile,
ignore.case = FALSE, perl = FALSE, fixed = FALSE, useBytes =
FALSE)

originalfile <- gsub(" +", ' ', originalfile, ignore.case =
FALSE, perl = FALSE, fixed = FALSE, useBytes = FALSE)

print(originalfile)

# READ IN FIXED FILE

fixedFileName = paste('C:\\
OCR\\',imageNumber, '.txt', sep='')

print(fixedFileName)

fixedfile <- read_file(fixedFileName)

fixedfile <- tolower(fixedfile)

fixedfile <- gsub('\r\n\r\n', ' ', fixedfile, ignore.case =
FALSE, perl = FALSE, fixed = FALSE, useBytes = FALSE)

fixedfile <- gsub('\r\n', ' ', fixedfile, ignore.case =
FALSE, perl = FALSE, fixed = FALSE, useBytes = FALSE)

fixedfile <- gsub("[[:punct:]]", '', fixedfile, ignore.case
= FALSE, perl = FALSE, fixed = FALSE, useBytes = FALSE)

fixedfile <- gsub(" +", ' ', fixedfile, ignore.case =
FALSE, perl = FALSE, fixed = FALSE, useBytes = FALSE)

print(fixedfile)

```

```
# check levenshtein distances
stringdist(correctfile, originalfile, method = c("lv"))
stringdist(correctfile, fixedfile, method = c("lv"))
```

Figure C2.1: Code Extract - Compare_OCR.R

Appendix D

This appendix contains tables which show the values across the MSER data tables generated for each image as well as the training files used, per feature.

Table D1: Basic statistics of the Major Axes feature across all images and training files

Image(s) Dataset	Variance	Standard Deviation	Mean	Median
1	1 886,92	43,44	24,62	23,00
2	15 484,40	124,44	28,24	14,36
3	7 049,32	83,96	23,58	9,00
4	1 412,94	37,59	16,21	5,94
5	1 564,44	39,55	9,36	4,35
6	4 508,32	67,14	29,00	10,48
7	3 504,27	59,20	15,02	4,61
8	14 160,75	119,00	19,34	6,28
9	5 561,26	74,57	24,26	26,45
10	8 093,51	89,96	20,29	4,91
11	6 578,66	81,11	21,62	11,66
12	6 111,93	78,18	21,27	6,72
13	205,08	14,32	21,28	23,39
14	2 135,43	46,21	29,53	30,66
15	4 560,15	67,53	27,27	25,83
16	8 932,82	94,51	26,50	24,90
17	9 811,44	99,05	29,90	31,03
18	11 157,59	105,63	29,94	32,72
19	11 433,19	106,93	28,63	29,01
1,2,4,6	4 711,74	68,64	22,87	9,57
2,4,6	5 543,19	74,45	22,35	7,83
7,11,12	5 587,25	74,75	19,70	6,77

Table D2: Basic statistics of the Minor Axes feature across all images and training files

Image(s) Dataset	Variance	Standard Deviation	Mean	Median
1	164,44	12,82	10,69	7,53
2	152,09	12,33	14,09	8,70
3	317,47	17,82	12,48	5,73
4	131,79	11,48	8,36	3,69
5	127,90	11,31	4,65	2,86
6	314,89	17,75	12,90	5,03
7	159,99	12,65	7,49	3,01
8	572,32	23,92	9,11	3,88
9	164,84	12,84	11,65	7,38
10	225,44	15,01	10,12	3,22
11	491,63	22,17	9,99	6,22
12	137,55	11,73	10,14	4,16
13	38,43	6,20	8,96	7,48
14	141,46	11,89	17,40	18,65
15	174,98	13,23	14,95	9,57
16	124,49	11,16	10,89	7,85
17	132,44	11,51	16,39	15,63
18	160,55	12,67	16,72	15,45
19	133,07	11,54	15,77	14,93
1,2,4,6	184,86	13,60	10,84	5,46
2,4,6	190,87	13,82	10,88	4,45
7,11,12	282,87	16,82	9,35	4,16

Table D3: Basic statistics of the Pixel Count feature across all images and training files

Image(s) Dataset	Variance	Standard Deviation	Mean	Median
1	2305874,33	1518,51	207,63	109
2	1188956,24	1090,39	339,20	78
3	3084199,28	1756,19	351,75	36
4	1118945,96	1057,80	190,34	13
5	764254,76	874,22	82,57	6
6	2139882,53	1462,83	384,99	44
7	567537,94	753,35	168,40	7
8	340152344,74	18443,22	373,54	15
9	3270906,03	1808,56	189,60	115
10	450329,45	671,07	218,57	8
11	65615246,77	8100,32	229,81	43
12	393879,56	627,60	189,62	18
13	10237,11	101,18	122,03	114
14	212330,97	460,79	375,82	382
15	432421,91	657,59	310,93	149
16	1028469,41	1014,13	202,17	123
17	477728,63	691,18	310,16	318
18	578165,23	760,37	337,45	348
19	5825836,18	2413,68	348,39	303
1,2,4,6	1613826,72	1270,36	260,26	37
2,4,6	1408784,72	1186,92	275,77	23
7,11,12	25835279,65	5082,84	199,45	18

Table D4: Basic statistics of the Orientation feature across all images and training files

Image(s) Dataset	Variance	Standard Deviation	Mean	Median
1	1,27	1,13	-0,32	-0,65
2	1,21	1,10	-0,11	0,00
3	0,93	0,97	-0,02	0,00
4	0,72	0,85	0,04	0,00
5	0,63	0,79	0,17	0,00
6	0,73	0,85	-0,07	0,00
7	0,86	0,93	0,10	0,00
8	1,20	1,10	0,01	0,00
9	1,33	1,15	-0,27	-0,55
10	0,97	0,98	0,10	0,00
11	1,27	1,12	-0,23	-0,18
12	1,20	1,10	-0,01	0,00
13	1,38	1,17	-0,33	-0,79
14	1,07	1,03	-0,15	-0,03
15	1,10	1,05	-0,12	0,00
16	1,29	1,13	-0,34	-0,75
17	1,27	1,13	-0,18	-0,11
18	1,22	1,11	-0,17	-0,05
19	1,09	1,05	-0,17	-0,06
1,2,4,6	0,96	0,98	-0,09	0,00
2,4,6	0,84	0,92	-0,02	0,00
7,11,12	1,15	1,07	-0,07	0,00

Appendix E

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Figure E1: OCR Text extracted from image 1 from 1st Gold Coast paper test run

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Figure E2: OCR Text extracted from image 1 from 1st Gold Coast paper test run