

The copyright © of this thesis belongs to its rightful author and/or other copyright owner. Copies can be accessed and downloaded for non-commercial or learning purposes without any charge and permission. The thesis cannot be reproduced or quoted as a whole without the permission from its rightful owner. No alteration or changes in format is allowed without permission from its rightful owner.



**COGNITIVE ENGAGEMENT AND ONLINE POLITICAL  
PARTICIPATION ON FACEBOOK AND TWITTER AMONG YOUTHS  
IN NIGERIA AND MALAYSIA**

**AISHAT ADEBISI ABDULRAUF**



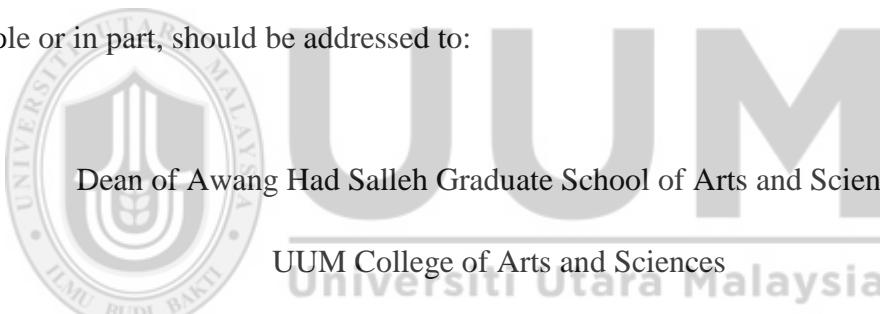
**DOCTOR OF PHILOSOPHY  
UNIVERSITI UTARA MALAYSIA**

**2016**

## **Permission to Use**

In presenting this thesis in fulfilment of the requirements for a postgraduate degree from Universiti Utara Malaysia, I agree that the Universiti Library may make it freely available for inspection. I further agree that permission for the copying of this thesis in any manner, in whole or in part, for scholarly purpose may be granted by my supervisor(s) or, in their absence, by the Dean of Awang Had Salleh Graduate School of Arts and Sciences. It is understood that any copying or publication or use of this thesis or parts thereof for financial gain shall not be allowed without my written permission. It is also understood that due recognition shall be given to me and to Universiti Utara Malaysia for any scholarly use which may be made of any material from my thesis.

Requests for permission to copy or to make other use of materials in this thesis, in whole or in part, should be addressed to:



Dean of Awang Had Salleh Graduate School of Arts and Sciences

UUM College of Arts and Sciences

Universiti Utara Malaysia

06010 UUM Sintok

## Abstrak

Peranan media sosial dari segi penyertaan politik dalam talian tidak boleh dipandang remeh. Namun, agak kurang kajian dijalankan berkaitan fenomena ini, terutamanya dari perspektif perbandingan. Oleh itu, kajian ini menggunakan Teori Penglibatan Kognitif (CET) untuk mengkaji hubungan antara Akses kepada Maklumat Politik di Facebook dan Twitter (APIFT), Minat kepada Politik (PI), Kepuasan terhadap Polisi (PS) dan Penyertaan Politik dalam talian di Facebook dan Twitter (OPPFT ) di Nigeria dan Malaysia yang digabungkan, serta secara individu mengikut negara. Peranan Pengetahuan Politik (PK) sebagai penyederhana dalam hubungan ini turut dianalisis. Satu kajian keratan rentas telah dijalankan ke atas 369 pelajar pra-ijazah daripada Ahmadu Bello University, Zaria dan Universiti Utara Malaysia. Borang soal selidik telah digunakan untuk mengumpul data yang dianalisis menggunakan Partial Least Squares-Structural Equation Modelling (PLS-SEM) dan Partial Least Squares-MultiGroup Analysis (PLS-MGA). Hasil kajian menunjukkan semua hubungan langsung yang dihipotesis antara APIFT, PI, dan PS dengan OPPFT dalam kajian ini diterima bagi gabungan responden, responden Nigeria dan Malaysia secara individu, kecuali untuk hubungan antara PS dan OPPFT bagi responden Malaysia. Juga, PK tidak menyederhana hubungan antara APIFT dan OPPFT bagi responden gabungan serta responden Malaysia, bagaimanapun ia menjadi penyederhana untuk responden Nigeria. Begitu juga dalam hubungan antara PI dan OPPFT, PK tidak menyederhanakan hubungan bagi responden gabungan dan responden Nigeria, bagaimanapun ia menyederhana untuk responden Malaysia. Tambahan lagi, PK tidak menyederhana hubungan antara PS dan OPPFT bagi responden gabungan dan responden Malaysia tetapi menyederhana untuk responden Nigeria. Selain itu, bagi perbezaan negara dari segi hubungan langsung, tidak terdapat perbezaan yang signifikan antara responden Nigeria dan Malaysia dari segi hubungan antara APIFT dan OPPFT, bagaimanapun terdapat perbezaan yang signifikan bagi hubungan antara PI dan PS dengan OPPFT. Secara umumnya, kajian ini menunjukkan bahawa APIFT, PI dan PS mengurangkan jurang dalam OPPFT dalam kalangan belia di Nigeria dan Malaysia. Di samping itu, PK juga merupakan penyederhana yang berpotensi untuk hubungan ini. Dengan itu, kajian ini telah menyumbang kepada pemodelan hubungan antara CET dan penyertaan politik. Jadi, penemuan kajian empirikal ini menambah kepada pengetahuan mengenai penyertaan politik dalam talian.

**Kata kunci:** media social, penyertaan politik dalam talian, penglibatan kognitif, , Nigeria, Malaysia.

## Abstract

The role of social media in online political participation cannot be understated. Yet, limited research has been conducted in this area. Thus, this study aims to investigate this phenomenon in comparative terms from the cognitive engagement perspective. This study adopts the Cognitive Engagement Theory (CET) to examine the relationship between Access to Political Information on Facebook and Twitter (APIFT), Political Interest (PI) and Policy Satisfaction (PS) and Online Political Participation of youth via Facebook and Twitter (OPPFT) in Nigeria and Malaysia combined, and each country individually. This study also analyses the moderating role of Political Knowledge (PK) in this relationship. A cross-sectional survey was conducted on 476 undergraduate students of Ahmadu Bello University, Zaria and Universiti Utara Malaysia. A questionnaire was used to collect data which was analysed using Partial Least Squares-Structural Equation Modelling (PLS-SEM) and Partial Least Squares-MultiGroup Analysis (PLS-MGA). Results reveal that APIFT, PI and PS lead to OPPFT among the youth in Nigeria and Malaysia, except the relationship between PS and OPPFT for Malaysian youth. Also, PK moderates the relationship between APIFT and OPPFT for the combined youth as well as Malaysian youth, but not for Nigerian youth. Furthermore, in the relationship between PI and OPPFT, PK does not moderate the relationship for the combined youth and Nigerian youth, but it does for the Malaysian youth. Additionally, PK is found not to moderate the relationship between PS and OPPFT for the combined youth and Malaysian youth but it does for Nigerian youth. Furthermore, for country differences in terms of direct relationships, there is no significant difference between Nigerian and Malaysian youth in terms of the relationship between APIFT and OPPFT, but there is a significant difference in the relationship between PI and PS with OPPFT. Generally, these findings suggest that from a social media angle, access to political information, PI, PK and PS are likely to reduce the gap in political participation among the youth in Nigeria and Malaysia. Consequently, this study contributes in the modelling of the relationship between CET and political participation. Thus, empirical findings of this study add to the body of knowledge on online political participation.

**Keywords:** Social media, online political participation, cognitive engagement, Nigeria, Malaysia

## Acknowledgement

My foremost gratitude goes to Allah (SWT) for His protection throughout this journey and making this task possible. Also, to the Prophet Muhammad (SAW) for being an exemplary being, inspiration and guide in my life.

I also express my heartfelt appreciation to my exceptionally great supervisors, Dr Norsiah binti AbdulHamid and Dr Mohd Sobhi bin Ishak for their guidance, constructive criticism and excellent supervision. They challenged me in ways that are indicative of true mentorship and never cease to amaze me with their patience and understanding. Their mentorship is greatly appreciated. In many regards, I am truly privileged to have had met and worked with Dr Norsiah, her encouragement, humility and great proof reading skills were an inspiration for me to put in my best which contributed immensely to my academic progress. I am also grateful to Dr Sobhi who always found time to ensure my work was methodologically and statistically right at all times. His valuable comments and tutorship through this journey cannot be forgotten. May Allah reward you both abundantly.

My appreciation also goes to the management of Universiti Utara Malaysia for providing me the research grant used to carry out this study and also University of Ilorin for giving me the opportunity to come for this programme. My thanks also goes Dr Mohd Khairie Bin Ahmad, Dr Rosli Mohammed, Dr Awan, Dr Norizah, Dr Ariffin and other staff of SMMTC for their encouragement and guidance.

Indeed I am deeply indebted to my parents, Prof Raufu Adebiyi Adebiyi and Hajia Kudirat Ibrahim Adebiyi for their spiritual, emotional and financial support through it all. None of this would have been possible without the opportunities you have presented me. Their prayers and confidence that I could attain this qualification propelled me towards this task. The immense contributions of my siblings Dr Lukman, Dr Abdulhafis, Rukkaya and Suleiman are deeply appreciated. They have been a great source of love and support when the pressure of work seemed overwhelming. I deeply appreciate you all and pray that Allah guide and guard you always.

My dear husband, Barr. Jamil Omoshola Salau, has also shown great love, patience and persistent encouragement during this journey. Indeed he made it look achievable even on days when it felt difficult. I am truly fortunate to have found someone willing to accept some of my responsibilities and give me the time needed to achieve my goals. My appreciation also goes to my in-laws, especially Dr Suleiman Salau for his mentorship since my Bachelor degree days.

Many thanks also goes to my friends and colleagues at the University of Ilorin and Universiti Utara Malaysia for their companionship, educational and emotional support. May we all reap the fruits of our labour.

## Table of Contents

Permission to Use.....	ii
Abstrak .....	iii
Abstract .....	iv
Acknowledgement.....	v
Table of Contents .....	vi
List of Tables.....	xiii
List of Figures .....	xvi
List of Appendices .....	xvii
List of Abbreviations.....	xviii
<b>CHAPTER ONE INTRODUCTION .....</b>	<b>1</b>
1.1 Background of the Study.....	1
1.2 Statement of Problem.....	2
1.3 Research Questions .....	9
1.4 Research Objectives .....	11
1.5 Significance of Research.....	12
1.6 Scope of the Study .....	13
1.7 Rationale for Comparative Study.....	13
1.8 Background on Nigeria and Malaysia.....	18
1.8.1 Nigeria.....	18
1.8.2 Malaysia .....	20
1.9 Conceptual Definition of Terms .....	21
1.9.1 Cognitive Engagement.....	21
1.9.2 Access to Information .....	21
1.9.3 Political Knowledge .....	21
1.9.4 Political Interest .....	22
1.9.5 Policy Satisfaction .....	22
1.9.6 Social Media .....	22
1.9.7 Online Political Participation on Facebook and Twitter.....	23

1.9.8 Youth.....	23
1.10 Chapter Summary.....	24
<b>CHAPTER TWO LITERATURE REVIEW .....</b>	<b>25</b>
2.1 Introduction .....	25
2.2 Online Political Participation .....	25
2.2.1 Conceptualizing Online Political Participation on Social Media.....	31
2.3 Gaps in Literature.....	39
2.4 Online Political Participation on Social Media.....	41
2.4.1 Online Political Participation on Facebook .....	43
2.4.2 Online Political Participation on Twitter .....	46
2.5 Online Political Participation of Youth on Social Media.....	50
2.5.1 Online Political Participation on Social Media among Youth in Nigeria..	55
2.5.2 Online Political Participation on Social Media among Youth in Malaysia	59
2.6 Cognitive Engagement Theory .....	63
2.6.1 Theoretical Framework .....	64
2.6.2 Education as a Feature of the Cognitive Engagement Theory.....	69
2.6.3 Cognitive Engagement Theory and Political Participation .....	71
2.6.3.1 Access to Political Information .....	72
2.6.3.2 Political Interest.....	80
2.6.3.3 Policy Satisfaction .....	80
2.6.3.4 Political Knowledge .....	82
2.7 Conceptual Framework and Formulation of Research Hypotheses .....	84
2.7.1 Access to Political Information on Facebook and Twitter and Online Political Participation on Facebook and Twitter.....	84
2.7.2 Political Interest and Online Political Participation on Facebook and Twitter.....	86
2.7.3 Policy Satisfaction and Online Political Participation on Facebook and Twitter.....	88
2.7.4 Political Knowledge and Online Political Participation on Facebook and Twitter.....	89

2.7.5 Comparison between Nigeria and Malaysia in terms of the relationship between Cognitive Engagement and Online Political Participation on Facebook and Twitter.....	93
2.8 Summary of Research Objectives and Hypothesis .....	95
2.9 Chapter Summary.....	100
<b>CHAPTER THREE METHODOLOGY .....</b>	<b>101</b>
3.1 Introduction .....	101
3.2 Research Philosophy .....	101
3.3 Research Design.....	102
3.4 Instrument of Data Collection .....	103
3.5 Operationalization and Measurement of Variables.....	106
3.5.1 Access to Political Information on Facebook and Twitter.....	106
3.4.1.1 Attention .....	107
3.4.1.2 Exposure .....	107
3.4.1.3 Reliance.....	107
3.5.2 Political Interest .....	108
3.5.3 Policy Satisfaction .....	108
3.5.4 Online Political Participation on Facebook and Twitter.....	109
3.5.4.1 Online Political Participation on Facebook.....	110
3.5.4.2 Online Political Participation on Twitter.....	112
3.5.5 Political Knowledge .....	112
3.5.6 Ethnicity .....	114
3.5.7 Religion.....	114
3.5.8 Age .....	115
3.5.9 Gender.....	115
3.6 Location of Research.....	116
3.7 Population of the Study .....	117
3.8 Sample Size and Sampling Technique .....	119
3.9 Pretesting and Pilot Study .....	124
3.10 Data Collection Method .....	128

3.11 Data Analysis Method.....	128
3.11.1 Descriptive Statistics.....	129
3.11.2 Inferential Statistics.....	129
3.11.2.1 Exploratory Data Analysis (EDA).....	129
3.11.2.2 Partial Least Squares –Structural Equation Modelling (PLS-SEM)	
.....	130
3.11.2.2.1 Measurement Model .....	132
3.11.2.2.2 Structural Model .....	132
3.11.2.2.3 Partial Least Squares –Multigroup Analysis (PLS-MGA)	
.....	133
3.12 Ethical Considerations .....	134
3.13 Chapter Summary.....	135
<b>CHAPTER FOUR RESULTS.....</b>	<b>137</b>
4.1 Introduction .....	137
4.2 Survey Response .....	137
4.2.1 Response Rate .....	137
4.2.2 Non-Response Bias Test .....	139
4.3 Demographic Profile of Respondents .....	144
4.4 Descriptive Statistics of Research Constructs (Variables).....	147
4.5 Data Screening .....	149
4.5.1 Missing Value Analysis .....	149
4.5.2 Assessment of Outliers.....	151
4.5.3 Normality Test .....	152
4.5.4 Multicollinearity Test.....	154
4.6 Assessment of PLS-SEM Path Model Results.....	155
4.6.1 Assessment of a Measurement Model (Nigeria and Malaysia) .....	156
4.6.1.1 Assessment of First Stage Hierarchical Construct Model (Nigeria and Malaysia) .....	158
4.6.1.1.1 Internal Consistency Reliability .....	159
4.6.1.1.2 Indicator Reliability .....	160

4.6.1.1.3 Convergent Validity.....	160
4.6.1.1.4 Discriminant Validity .....	162
4.6.1.2 Assessment of Second Stage Hierarchical Construct Model (Nigeria and Malaysia) .....	165
4.6.2 Assessment of Structural Model (Nigeria and Malaysia) .....	168
4.6.2.1 Assessment of Variance Explained in the Endogenous Latent Variables .....	171
4.6.2.2 Assessment of Effect Size ( $f^2$ ) .....	172
4.6.2.3 Assessment of Predictive Relevance .....	173
4.6.3 Assessment of Measurement Model (Nigeria).....	175
4.6.3.1 Assessment of First Stage Hierarchical Construct Model (Nigeria) .....	176
4.6.3.1.1 Internal Consistency Reliability (Nigeria).....	177
4.6.3.1.2 Indicator Reliability (Nigeria) .....	178
4.6.3.1.3 Convergent Validity (Nigeria) .....	178
4.6.3.1.4 Discriminant Validity (Nigeria).....	179
4.6.3.2 Assessment of Second Stage Hierarchical Construct Model (Nigeria).....	182
4.6.3.3 Assessment of Structural Model (Nigeria) .....	184
4.6.4 Assessment of Measurement Model (Malaysia) .....	187
4.6.4.1 Assessment of First Stage Hierarchical Construct Model (Malaysia) .....	187
4.6.4.1.1 Internal Consistency Reliability (Malaysia) .....	188
4.6.4.1.2 Indicator Reliability (Malaysia) .....	189
4.6.4.1.3 Convergent Validity (Malaysia) .....	189
4.6.4.1.4 Discriminant Validity (Malaysia) .....	190
4.6.4.2 Assessment of Second Stage Hierarchical Construct Model (Malaysia) .....	193
4.6.4.3 Assessment of Structural Model (Malaysia) .....	195
4.7 Partial Least Squares Multi-Group Analysis (PLS-MGA) .....	197

4.7.1 PLS-MGA to Test for Moderating Effect of Political Knowledge (Nigeria and Malaysia).....	198
4.7.2 PLS-MGA to Test for Moderating Effect of Political Knowledge (Nigeria) .....	202
4.7.3 PLS-MGA to Test for Moderating Effect of Political Knowledge (Malaysia) .....	204
4.7.4 PLS-MGA to Test for Comparative difference between Nigeria and Malaysia based on Exogenous and Endogenous Variables .....	206
4.8 Summary of Findings.....	207
4.9 Post Hoc G*Power Analysis .....	210
4.10 Chapter Summary.....	212
<b>CHAPTER FIVE DISCUSSION OF RESULTS AND CONCLUSION.....</b>	<b>213</b>
5.1 Introduction .....	213
5.2 Summary of Findings .....	213
5.3 Discussion .....	217
5.3.1 The Influence of Access to Political Information on Facebook and Twitter on Online Political Participation on Facebook and Twitter.....	217
5.3.1.1 Access to Political Information on Facebook and Twitter and Online Political Participation on Facebook and Twitter .....	218
5.3.2 The Influence of Political Interest on Online Political Participation on Facebook and Twitter .....	220
5.3.2.1 Political Interest and Online Political Participation on Facebook and Twitter.....	220
5.3.3 The Influence of Policy Satisfaction on Online Political Participation on Facebook and Twitter .....	222
5.3.3.1 Policy Satisfaction and Online Political Participation on Facebook and Twitter.....	222
5.3.4 Moderating Effect of Political Knowledge .....	224
5.3.4.1 Moderating Effect of Political Knowledge on the relationship between Access to Political Information on Facebook and Twitter and	

Online Political Participation on Facebook and Twitter in Nigeria and Malaysia .....	224
5.3.4.2 Moderating Effect of Political Knowledge on the relationship between Political Interest and Online Political Participation on Facebook and Twitter in Nigeria and Malaysia .....	227
5.3.4.3 Moderating Effect of Political Knowledge on the relationship between Policy Satisfaction and Online Political Participation on Facebook and Twitter in Malaysia .....	228
5.3.5 Difference between Nigerian and Malaysian Youth in terms of the Relationship between the Exogenous Variables and the Endogenous Variable .....	230
5.3.5.1 Comparison of the Relationship between the Exogenous Variables and the Endogenous Variable .....	231
5.4 Implications of the Study .....	232
5.4.1 Theoretical Implication .....	232
5.4.2 Practical Implication .....	235
5.4.3 Methodological Implication .....	237
5.5 Limitations of the Study.....	238
5.6 Recommendations for Future Studies .....	240
5.7 Conclusion .....	241
REFERENCES.....	245
Appendix A .....	284
Appendix B .....	291
Appendix C .....	298
Appendix D .....	300
Appendix E .....	302
Appendix F .....	303
Appendix G .....	304
Appendix H .....	305

## List of Tables

Table 1.1 Waves of Democratization.....	15
Table 2.1 Ten Most Visited Sites in the World.....	43
Table 3.1 Summary of Scales.....	116
Table 3.2 Disproportionate Allocation Stratified Sampling .....	124
Table 3.3 Reliability and Validity of Constructs (n=80) .....	126
Table 3.4 Latent Variable Correlation .....	127
Table 3.5 Threshold Values for a Reflective Model.....	132
Table 3.6 Threshold Values for Structural model.....	133
Table 4.1 Response Rate of the Questionnaires.....	139
Table 4.2 Administered, Returned and Usable Questionnaires .....	139
Table 4.3 Results for Independent-Samples T-test for Non-Response Bias (Nigeria and Malaysia) .....	141
Table 4.4 Results for Independent-Samples T-test for Non-Response Bias (Nigeria) .....	142
Table 4.5 Results for Independent-Samples T-test for Non-Response Bias (Malaysia) .....	143
Table 4.6 Demographic Distribution of Respondents.....	144
Table 4.7 Descriptive Statistics for Latent Variables.....	147
Table 4.8 Descriptive Statistics for Political Knowledge (Combined, Nigeria and Malaysia).....	148
Table 4.9 Total and Percentage of Missing Values.....	151
Table 4.10 Correlation Matrix of the Exogenous Latent Constructs .....	155
Table 4.11 Loadings, Average Variance Extracted (AVE) and Relaibilities for First Stage Hierarchical Construct Model (Nigeria and Malaysia) .....	161
Table 4.12 Discriminant Validity (Fornell-Larcker Criterion) for First Stage Hierarchical Construct Model (Nigeria and Malaysia) .....	163
Table 4.13 Cross-Loadings for First Stage Hierarchical Construct Model (Nigeria and Malaysia) .....	164

Table 4.14 Loadings, Cross-loadings, Average Variance Extracted (AVE) and Reliabilities for Second Stage Model (Nigeria and Malaysia).....	167
Table 4.15 Discriminant Validity (Fornell-Larcker Criterion) for Second Stage Constructs (Nigeria and Malaysia).....	167
Table 4.16 Structural Model Assessment (Nigeria and Malaysia) .....	170
Table 4.17 Effect Sizes of the Latent Variables based on the Recommendation of Cohen (1988).....	173
Table 4.18 Construct Cross-Validated Redundancy .....	174
Table 4.19 $\eta^2$ Effect Sizes of Exogenous Latent Variable .....	175
Table 4.20 AVE, Cronbach's Alpha and Composite Reliability (Nigeria).....	179
Table 4.21 Discriminant Validity (Fornell Larcker Criterion) for First Stage Constructs (Nigeria) .....	180
Table 4.22 Cross-Loadings for First Stage Items (Nigeria) .....	181
Table 4.23 Discriminant Validity (Fornell-Larcker Criterion) for Second Stage Constructs (Nigeria) .....	184
Table 4.24 Cross-loadings for Second Stage Items (Nigeria).....	184
Table 4.25 Structural Model Assessment (Nigeria) .....	185
Table 4.26 AVE, Cronbach's Alpha and Composite Reliability (Malaysia) .....	190
Table 4.27 Discriminant Validity (Fornell-Larcker Criterion) for First Stage Constructs (Malaysia) .....	191
Table 4.28 Cross Loadings for First Stage Items (Malaysia) .....	192
Table 4.29 Discriminant Validity (Fornell-Larcker Criterion) for Second Stage Constructs (Malaysia) .....	194
Table 4.30 Cross Loadings for Second Stage Construct (Malaysia) .....	195
Table 4.31 Structural Model Assessment (Malaysia) .....	196
Table 4.32 PLS-MGA for Respondents Without or With Political Knowledge (Nigeria and Malaysia).....	201
Table 4.33 PLS-MGA for Respondents Without or With Political Knowledge (Nigeria) .....	203
Table 4.34 PLS-MGA for Respondents Without or With Political Knowledge (Malaysia) .....	205

Table 4.35 PLS-MGA for Group Difference between Exogenous and Endogenous Variables between Nigeria and Malaysia.....	207
Table 4.36 Summary of Hypothesis Testing.....	208



## List of Figures

Figure 2.1. Theoretical Framework (Developed from the ideas of Inglehart, 1977; Dalton, 2008; and Whiteley, 2005) .....	65
Figure 2.2. Conceptual Framework.....	95
Figure 3.1 Output of a Priori Power Analysis.....	120
Figure 4.1. Histogram and Normal Probability Plot .....	153
Figure 4.2. Q-Plot.....	154
Figure 4.3. First Stage Hierarchical Construct Model (Nigeria and Malaysia) .....	159
Figure 4.4. Second Stage Hierarchical Construct Model (Nigeria and Malaysia)...	166
Figure 4.5. Structural Model (Nigeria and Malaysia) .....	169
Figure 4.6. First Stage Hierarchical Construct Model (Nigeria).....	177
Figure 4.7. Second Stage Hierarchical Construct Model (Nigeria) .....	183
Figure 4.8. First Stage Hierarchical Construct Model (Malaysia) .....	188
Figure 4.9. Second Stage Hierarchical Construct Model (Malaysia).....	194
Figure 4.10. Second Stage Hierarchical Construct Model MGA for Respondents without Political Knowledge (Nigeria and Malaysia).....	199
Figure 4.11. Second Stage Hierarchical Construct Model MGA for Respondents with Political Knowledge (Nigeria and Malaysia) .....	200
Figure 4.12. Output of Post-Hoc Power Analysis.....	211

## **List of Appendices**

Appendix A Survey Questionnaire for Nigeria.....	284
Appendix B Survey Questionnaire for Malaysia.....	291
Appendix C Missing Value Output.....	298
Appendix D SmartPLS Output –Measurement Model (Combined Data).....	300
Appendix E SmartPLS Output- Bluffolding Procedure Output (Combined Data).....	302
Appendix F SmartPLS Output (Nigerian Data).....	303
Appendix G SmartPLS Output (Malaysian Data).....	304
Appendix H Cover Letter.....	305



## **List of Abbreviations**

- ABU- Ahmadu Bello University  
AC- Action Congress  
ACI- Arewa Christian Initiative  
ACN- Action Congress of Nigeria  
ANPP- All Nigeria's Peoples Party  
APGA- All Progressive Grand Alliance  
API- Access to Political Information  
APIFT- Access to Political Information on Facebook and Twitter  
APC- All Progressive Congress  
AVE- Average Variance Extracted  
BN- Barisa Nasional/ National Front  
CET- Cognitive Engagement Theory  
CMC- Computer Mediated Communication  
CMV- Common Method Variance  
CPC- Congress for Progressive Change  
DAP- Democratic Action Party  
EC (SPR) - Election Commission  
EDA- Exploratory Data Analysis  
EiE- Enough is Enough  
FOIA- Freedom of Information Act  
GE13- 13<sup>th</sup> Malaysian General Election  
HCM- Hierarchical Component Model  
HOC- Higher-Order Construct  
HTMT- Heterotrait-Monotrait Ratio  
ICT- Information and Communication Technology  
IM- Instant Messaging  
INEC- Independent National Electoral Commission  
LOC- Lower-Order Construct  
LP- Labour Party

MCMC- Malaysian Communication and Multimedia Commission  
MGA - Multigroup Analysis  
n2n - Neighbour to Neighbour  
OPP- Online Political Participation  
OPPFT- Online Political Participation on Facebook and Twitter  
PAS- Parti Islam Se-Malaysia  
PI- Political Interest  
PDP- Peoples Democratic Party  
PK- Political Knowledge  
PR- Pakatan Rakayat  
PS- Policy Satisfaction  
PTP- Political Transformation Programme  
PAS- Pan Malaysian Islamic Party  
PDP- Peoples Democratic Party  
PLS- Partial Least Square  
PLS-MGA – Partial Least Squares Multigroup Analysis  
PLS-SEM- Partial Least Squares Structural Equation Modelling  
PKR – Peoples Justice Party  
PRU13- Pilihanraya Umum keh 13  
 $R^2$  – R-Squared  
SEM- Structural Equation Model  
SES- Socio- Economic - Status  
SMS – Short Message Service  
SNSs- Social Networking Sites  
SPSS- Statistical Packages for Social Sciences  
UGC –User-Generated-Content  
UMNO- United Malay National Organization  
UPN- Unity Party of Nigeria  
UK- United Kingdom  
US- United States  
UUM- Universiti Utara Malaysia

# **CHAPTER ONE**

## **INTRODUCTION**

### **1.1 Background of the Study**

The Internet, from its web 1.0 technology to its recent web 2.0 technology, has affected the way politics works (Dimitrova & Bystrom, 2013; Deursen, Dijk & Helsper, 2014; Iwokwagh & Okoro, 2012; Yamamoto & Kushin, 2013). It is a ‘deliberative space’ which is highly democratic (Cogburn & Espinoza-Vasquez, 2008), such that it has added to tools of politicking among citizens (Ternes, Mittelstadt & Towers, 2014). This has made it a powerful tool for political participation (Campante, Durante & Sobrio, 2013).

Seemingly, the role played by the Internet in politics has led to the emergence of concepts, such as e-participation (Gibson & Cantijoch, 2013; Grönlund & Wakabi 2015; Vincente & Novo, 2014); cyber-democracy (Chun, 2012); digital democracy (Hyun, 2012); and ‘Netizens’. These concepts have led to situations where the Internet is being used as an important participation tool during political campaigns (Boubacar, 2005). Therefore, the Internet has made possible the provision of inexpensive news releases, such that political elites could communicate with voters and build online communities. Hence, the political lives of citizens and candidates have been strengthened by Internet through interactivity, which is crucial to the functioning of democracy (Zhao, 2014).

The contents of  
the thesis is for  
internal user  
only

## REFERENCES

- Abd Rahman, M.F., Hamzah, M.H., Ngah, K., Mustaffa, J. & Ismail, N.Q.A. (2014). Issues in 13<sup>th</sup> general election: A case study of Kedah, Malaysia. *Asian Social Science*, 10(8). doi:10.5539/ass.V10n8P12.
- Academic Affairs Department (2015) Statistics of Universiti Utara Malaysia Undergraduates based on Ethnicity. Academic Affairs Department, Universiti Utara Malaysia.
- Adaja, T.A. & Ayodele, F.A. (2013). Nigerian youths and social media: Harnessing the potentials for academic excellence. *Singaporean Journal of Business, Economics and Management*. 1(6), 56-64.
- Afouxenidis, A. (2014). Social media and political participation: An investigation of small scale activism in Greece. *Advances in Applied Sociology*, 04(01), 1–4. doi:10.4236/aasoci.2014.41001.
- Afthanorhan, W.M.A.B.W (2013). A comparison of Partial Least Square Structural Equation Modelling (PLS-SEM) and Covariance based Structural Equation Modelling (CB-SEM) for confirmatory factor analysis. *International Journal of Engineering Science and Innovative Technology* 2(5), 198-205.
- Agboola, A. K. (2013). Online political campaign communications in Nigeria: a study of information contents and political orientation of Nigerian websites. *International Journal of Emerging Technology and Advanced Engineering*, 3(4), 662-671.
- Agboola, A. K. (2014). The Influence of New Media on Conventional Media in Nigeria. *Academic Research International*, 5(4), 105. Retrieved on November 15, 2015 from [www.savap.or.pk](http://www.savap.or.pk)
- Aguinis, H., Gottfredson, R. K., & Joo, H. (2013). Best-practice recommendations for defining, identifying, and handling outliers. 1-32, *Organizational Research Methods*, doi: 10.1177/1094428112470848.
- Agyeman, O.T. (2007). Information and Communication Technology for education in Nigeria. A survey of Information and Communication Technology an education in Africa: Nigeria country report. Retrieved on May 30, 2014 from [www.infodev.org](http://www.infodev.org).
- Ahmad, M. K., & Othman, M. B. (2014). General Election and the enigma of free press in Malaysia. *Procedia-Social and Behavioral Sciences*, 155, 547-552.
- Ahmad, S. A. (2011). *Social Networking Sites Usage and Students' Attitudes towards Social Behaviors and Academic Adjustment in Northern Nigerian*

*Universities* (Doctoral dissertation, Universiti Utara Malaysia). Available on ProQuest Dissertation and Thesis Data Base.

Alaminos, A. & Penalva, C. (2012). The cognitive mobilization index. Sage Open, 1-12. doi: 10.1177/2158255012440437

Al-rahmi, W., & Othman, M. (2013). The impact of social media use on academic performance among university students: A pilot study. *Journal of information systems research and innovation*, 4, 1-10.

Ammann, S.L. (2014). Is there an attendance effect? Examining the causal link between religious attendance and political participation. *American Politics Research*. 1-23 .doi:10.1177/153673x14533720.

Analytical Methods Committee. (1989). Robust statistics—how not to reject outliers. Part 1. Basic concepts. *Analyst*, 114(12), 1693-1697.

Asekun-Olarinmoye, O.S., Sanusi, B.O., Johnson, J., & Oloyede, D. B. (2014). Imperatives of Internet and social media on broadcast journalism in Nigeria. *New Media and Mass Communication*. 23, 8-15. Retrieved June 2, 2014 from [www.iiste.org](http://www.iiste.org).

Atolagbe, Y. (April 20, 2011). Social media and the Nigerian election. Radio Netherlands worldwide Africa.

Awopeju, A. (2012). 2011 Presidential election and the political participation in Nigeria. *Canadian Social Science*. Retrieved, 8(2) 96-103. Retrieved October 30, 2014 from <http://eserv.uum.edu.my/docview/1019052904?accountid=42599>.

Azarian, R. (2011). Potentials and limitations of comparative method in social science. *International Journal of Humanities and Social Science*, 1(14), retrieved November 30, 2015 from [www.ijhssnet.com](http://www.ijhssnet.com)

Bachmann, I. & Gil de Zuniga, H. (2013). News platform preference as a predictor of political and civic participation convergence. *The International Journal of Research Introduction New Media Technology*, 19(4), doi: 10.117711354856513493699.

Babbie, E. (1998). *The practice of social science research*. Belmont, California: Wadsworth Publishing Company.

Babbie, E. (2001). *The practice of social science research*. Belmont, California: Wadsworth Publishing Company.

- Bae, S. Y. (2014). *From Encounters to Engagement-Examining Political Engagement in an Age of Social Media* (Doctoral dissertation, University of Michigan). Available on ProQuest Dissertation and Thesis Data Base.
- Bah, A.B. (2004). *Breakdowns and Reconstitutions: Democracy. The Nation-State and Ethnicity in Nigeria*. (Doctoral Dissertation, New School University). Available on ProQuest Dissertation and Thesis Data Base.
- Baker, T. P., & De Vreese, C. H. (2011). Good news for the future youth's Internet use and political participation. *Communication Research*, 38(4). doi:10.1177/0093650210381738.
- Banducci, S., Stevens, D., Jerit, J., Barabas, J., Pollock. W., & Schoonvelde, M. (2009). Advancing understanding in news information, political knowledge and media system research. *Media Effect Research, Economic and Social Research Council*. Retrieved on November 9, 2014 from www.exeter.ac.uk.
- Barclay, D., Higgins, C., & Thompson, R. (1995). The partial least squares (PLS) approach to causal modeling: Personal computer adoption and use as an illustration. *Technology studies*, 2(2), 285-309.
- Barkan, S. E. (2004). Explaining Public Support for the Environmental Movement: A Civic Voluntarism Model. *Social Science Quarterly*, 85(4), 913-937.
- Baron, R.M. & Kenny, D.A. (1986). The moderator-mediator variable distinction in social psychological research: Conceptual, strategic and statistical considerations. *Journal of Personality and Social Psychology*, 51(3), 1173-1182. doi.org/10.1037/00223514.51.6.1173.
- Battaglini, M. (2015). Public Protests, Social Media and Policy Making. *Princeton University William S. Dietrich II Economic Theory Center Research Paper*, (068\_2015).
- Bekafigo, M. A., & McBride, A. (2013). Who tweets about politics? Political participation of Twitter users during the 2011 gubernatorial elections. *Social Science Computer Review*, 31(5), 625–643. doi:10.1177/0894439313490405.
- Baumgartner, J. C., & Morris, J. S. (2010). MyFaceTube politics: Social networking websites and political engagement of young adults. *Social Science Computer Review*, 28 (1), 24-44. doi: 10.1177/0894439309334325.

- Bennett, W. L. (2008). 'Changing citizenship in the digital age'. In W. L. Bennet (Ed) *Civic Life Online: Learning how Digital Media can Engage Youth*. The John D. and Catherine, T. MacArthur Foundation Series on Digital Media and Learning. Cambridge, MA: The MIT Press 1–24. doi:10.1162/dmal.9780262524827.001.
- Berger, A. A. (2011). *Media and communication research methods. An introduction to qualitative and quantitative approaches* (2<sup>nd</sup> ed.). Los Angeles, USA: SAGE Publications Limited.
- Bernard, H.R. (1994). *Research methods in anthropology: Qualitative and quantitative approaches* (2<sup>nd</sup> ed.). Walnut Creek, California: AltaMira.
- Besar, J.A., Jalo, M.F.M, Lyndon, N., & Selvadural, S. (2015) Managing political behavior of university students, 6(4). *Mediterranean Journal of Social Science*. doi:10.5901/mjss.2015.v6n4s3p48
- Bimber, B. (2000). The study of information technology and civic engagement. *Political Communication*, 17(4), 329-333.
- Borneo Post Online (2013). 13.3 Million Malaysians are Facebook users. Retrieved on December 15, 2014 from www.theborneopost.com.
- Boubacar, S. (2005). *Political communication on presidential websites. A comparative analysis and policy implications discourse between the 2000 and 2004 campaign* (Doctoral Dissertation, University of Arkansas). Available on ProQuest Dissertation and Thesis Data Base.
- Boukes, M., & Boomgaarden, H. G. (2014). Soft news with hard consequences? Introducing a nuanced measure of soft versus hard news exposure and its relationship with political cynicism. *Communication Research*, 42(5), 701 -731. doi:10.1177/0093650214537520
- Boulianne, S. (2009). Does Internet use affect engagement? A meta-analysis of research. *Political Communication*, 26, 193-211. doi:10.1080/10584600902854363.
- Boulianne, S. (2015). Social media use and participation: a meta-analysis of current research. *Information, Communication & Society*, 18 (5), 524-538.
- Bruin, J. (2006). Newtest: command to compute new test. UCLA: Academic Technology Services, Statistical Consulting Group.

- Burke, S. (2001). Missing values, outliers, robust statistics & non-parametric methods. *LC-GC Europe Online Supplement, Statistics & Data Analysis*, 2(0), 19-24.
- Burstein, P., American, S., & May, N. (1972). Social structure and individual political participation in five countries. *American Journal of Sociology*, 77(6), 1087–1110.
- Calenda, D., & Meijer, A. (2009). Young people, the Internet and political participation: findings of a web survey in Italy, Spain and The Netherlands. *Information, Communication & Society*, 12(6), 879-898.
- Campbell, A. (2003). “Policy feedbacks and mass publics”. *Political psychology and behaviour workshop*. Harvard University.
- Campante, F. R., Durante, R., & Sobrino, F. (2013). *Politics 2.0: The multifaceted effect of broadband Internet on political participation* (No. w19029). National Bureau of Economic Research. Retrieved on December 4, 2014 from [www.hks.harvard.edu](http://www.hks.harvard.edu).
- Carlisle, J. E., & Patton, R. C. (2013). Is social media changing how we understand political engagement? An analysis of Facebook and the 2008 presidential election. *Political Research Quarterly*, 66(4), 883–895. doi:10.1177/1065912913482758.
- Carpini, M. X. D., & Keeter, S. (1993). Measuring political knowledge: Putting first things first. *American Journal of Political Science*, 1179-1206.
- Carpini, M.X.D. & Keeter, S. (1996) *What Americans know about politics and why it matter*. New Haven, CT: Yale University Press.
- Carter, L.D. (2006). *Political participation in the digital age: An integrated perspective on the impacts of the Internet on voter turnout*. (Doctoral Dissertation, Virginia Polytechnic Institute and State University). Available on ProQuest Dissertation and Thesis Database.
- Casteltrione, I (2012). Facebook and political participation in Italy and the UK: Addressing gaps in political participation research, 4<sup>th</sup> ECPR Graduate Conference, Jacobs University, Bremen, 4-6<sup>th</sup> July, 2012.
- Casteltrione, I. (2014). Facebook and Political Information in Italy and the UK: An Antidote against Political Fragmentation and Polarization? *Online Journal of Communication and Media Technologies*, 4(1), 27.

- Casteltrione, I (2015). The Internet, social networking websites and political participation research: Assumption and contradictory evidence. *First Monday*, 20 (3) doi: <http://dx.doi.org/10.5210/fm.v20i3.5462>
- Chaffee, S.H. & Scheleuder, J. (1986). Measurement and effect of attention to media news. *Human Communication Research*. 13(1), 76 – 107. doi:10.1111/j.1468.2958.1986.1600096.x
- Chan, C. M. (2012). *Selection and uses of Internet news and implications for collective action and political participation: The contingent roles of social identity and efficacy*. (Doctoral Dissertation, the Chinese University of Hong Kung). Available on ProQuest Dissertation and Thesis Database.
- Charles, M.C.W. (2010). *Impact of digital inequality on civic and political participation*. (Doctoral Dissertation, The Hong Kong University of Science and Technology). Available on ProQuest Dissertation and Thesis Database.
- Chin, W.W. (1998). The Partial Least Squares approach to structural equation modeling. In G.A. Marcoulides (Ed), *Modern Methods for Business Research* (pp. 295-336), Mahwah, New Jersey: Lawrence Erlbaum Associates.
- Chin, C., Lo, M., & Ramayah, T. (2013). Market orientation and organizational performance: The moderating role of service delivery. *Sage Open*, 3, October – December, 2013, 1-14. doi:10.1177/2158244013512664
- Chin, W. W., Marcolin, B. L., & Newsted, P. R. (2003). A partial least squares latent variable modeling approach for measuring interaction effects: Results from a Monte Carlo simulation study and an electronic-mail emotion/adoption study. *Information systems research*, 14(2), 189-217. Retrieved November 21, 2014 from www.informs.org.
- Christensen, H. S, (2011). Political activities on the Internet: slacktivism or political participation by other means? *First Monday*, 16(2) retrieved October 12, 2014 from  
<http://firstmonday.org/htbin/cgiwrap/bin/ojs/index.php/fm/articles/view/3301>  
2167.
- Christensen, H. S, (2012). Simply slacktivism? Internet participation in Finland. *JeDEM Journal of eDemocracy and Open Government*, 4(1), 1-23.
- Chun, H. (2012). *Social Networking Sites and cyber democracy: A new model of dialogic interactivity and political mobilization in the case of South Korea*. (Doctoral Dissertation, University of New York). Available on ProQuest Dissertation and Thesis Database.

- Chung, C. J., Nam, Y., & Stefanone, M. A. (2012). Exploring online news credibility: The relative influence of traditional and technological factors. *Journal of Computer-Mediated Communication*, 17(2), 171-186.
- Cogburn, D. L., & Espinoza-Vasquez, F. K. (2008). From networked nominee to networked nation : Examining the impact of web 2.0 and social media on political participation and civic engagement in the 2008 Obama campaign. *Journal of Political Marketing*, 10(1-2), 37-41. doi:10.1080/15377857.2011.540224.
- Cohen, J. (1988). Statistical power analysis for the behavioural sciences. Hillsdale, New Jersey: Lawrence Erlbaum Associates.
- Cohen, C.J., & Kahne, J. (2012). Participatory politics: New media and youth political action. Retrieved May 15, 2014 from <http://ypp.dmccentral.net>.
- Collier, D. (1993). The comparative method: In Ada, W.F. (Ed) *Political Science: The State of the Discipline* II. Washington D.C.: American Political Science Association.
- Collier, D. (1995). Translating quantitative methods for qualitative researchers: The case of selection bias. *American Political Science Review*, 89(02), 461-466.
- Cortina, J. M. (2002). Big things have small beginnings: An assortment of “minor” methodological misunderstandings. *Journal of Management*, 28(3), 339-362.
- CP Africa.com (2014). Over 11 million Nigerians on Facebook; becomes largest user base in Sub-Saharan Africa. Retrieved December 15, 2014 from [www.cp-africa.com](http://www.cp-africa.com)
- Creswell J.W. (2009). *Research design: qualitative, quantitative and mixed method approaches*. London: Sage Publications Inc
- Creswell, J. W. (2012). *Educational research. Planning, conducting and evaluating quantitative and qualitative research*. (4th ed.). Boston, MA. United States of America: Pearson Education, Inc.
- Croke, K., Grossman, G., Larreguy, H.A. & Marshall, J. (2014). *The Effect of Education on Political Participation in Electoral Authoritarian Regimes: Evidence from Zimbabwe*. Working Paper.

- Cousineau, D. & Chartier, S. (2010). Outlier's detection and treatment: A review. *International Journal of Psychological Research*, 3(1). Retrieved November 13, 2015 from <http://mvint.unbned.ed.co>
- Dagona, Z. K, Karick, H., & Abubakar, F.M. (2013). Youth participation in social media and political attitudes in Nigeria. *Journal of Sociology, Psychology and Anthropology in Practice*. 5(1). ISSN: 2141-274X.
- Dahlgren, P. (2003). 'Reconfiguring civic culture in the new media milieu'. In J. Corner and D. Pals (Eds.) *Media and the Restyling of Politics*, 151-170. London: Sage.
- Dahlgren, P. (2005). The Internet, public sphere and political communication: dispersion and deliberation. *Political Communication*, 22, 147-162. doi:10.1080/10584600590933160.
- Dahlgren, P. & Gurevitch, M. (2005). Political communication in a changing world. In J. Curran, and M. Gurevitch (Eds.) *Mass Media and Society*. 375-393. London: Arnold.
- Dalton, R.J. (1984). Cognitive mobilization and partisan dealignment in advanced industrial democracies. *The Journal of Politics*. 46, 264 -284. doi.org/01.2307/2130444
- Dalton, R. J. (2006). *Citizen's politics: public opinion and political parties in advanced industrial democracy*. Washington D.C: Congressional Quarterly Press.
- Dalton, R.J. (2008). Citizen norms and the expression of political participation. *Political Studies*, 56(1), 76-98. doi: 10.1111/j.1467-9248.2007.00718.x.
- David, C. C. (2013). ICTs in political engagement among youths in the Philippines. *International Communication Gazette*, 75(3), 322–337. doi:10.1177/1748048512472948.
- David, J. (2015, March 3). Social media statistics 2014 [Weblog Message]. Retrieved from <http://blog.malaysia-asia.malaysia.asia.my>.
- Deursen, A., Dijk, J., & Helsper, E. (2014). Investigating outcomes of online engagement. 28. Media @ ISE, London school of economics and political science, London. In Camnaets, B., Astead, N. & Garland, R. (Ed) Media @ LSE working paper series. Media @ LSE Department of Media and Communication.

- D'heer, E. & Verdegem, P. (2014). Conversations about the election on Twitter: Towards a structural understanding of Twitter's relation with the political and the media field. *European Journal of Communication*, 29(6), 720-734. doi: 10.1177/0267323114544866.
- Dimitrova, D. V. & Bystrom, D. (2013). The effect of social media on political participation and candidate image evaluations in the 2012 Iowa caucuses. *Animal Behavioral Scientist*, 57, 1568. doi: 10.1177/002764213489011.
- Dimitrova, D.V., Shehata, A., Stromback, J. & Nord, L.W. (2014). The effect of digital media on political knowledge and participation in election campaigns: Evidence from panel data. *Communication Research*. 41(1) 95-118. doi:10.1177/0093650211426004.
- Djupe, P.A. & Grant, J.T. (2001). Religious institution and political participation in America. *Journal for the Scientific Study of Religion*, 40(2), 302-314. doi:10.1111/0021-8294.00057
- Doorenspleet, R. (2000). Reassessing the three waves of democratization. *World Politics*, 53(3), 384-406. doi.10.1353/wp.2000.0008.
- Duarte, P., & Raposo, M. (2010). A partial least square model to studying brand preference: An application to the mobile market. In V. Esposito Vinzi, W.W. Chin, J. Henseler & H. Wang (Eds.), *Handbook of Partial Least Square* (pp.449-485). Springer, Berlin: Heidelberg.
- Ebegulem, J.C. (2007). Ethnic politics and conflicts in Nigeria: Theoretical perspectives. *Khazar Journal of Humanities and Social Science*, 14(3), 76-91.
- Ehidiamen, J. (2011). Nigerian youth celebrate social media as tool of successful election. Retrieved on May 4, 2014 from <http://www.agora.nigeriaelections.org>.
- Ejobowah, J.B. (1999). *The political public and difference: A case of Nigeria*. (Doctoral Dissertation, University of Toronto) Available on National Library of Canada Data Base.
- Ekwenchi, O. C., & Udenze, S. (2014). Youth and political apathy: lessons from a social media platform. *International Journal of Social Sciences and Humanities Review*, 4(4).
- Emmanuel, O. (2015, September 11). Facebook's daily users more in Nigeria than South Africa, Kenya and others. Retrieved May 13, 2016 from [www.premiumtimesnigeria.com](http://www.premiumtimesnigeria.com).

- Engesser, S. & Franzetti, A. (2011). Media system and political systems: Dimensions of comparison. *International Communication Gazette*, 73(4), 273-301. doi:10.1177/1748048511398590.
- Enjolras, B., Steen-Johnsen, K., & Wollebæk, D. (2013). Social media and mobilization to offline demonstrations: Transcending participatory divides? *New Media & Society*, 15(9), 890-908. doi:10.1177/1461444812462844.
- Eveland Jr., W.P., Hutchens, M.J. & Shen, F. (2009). Exposure, attention, or “use” of news? Assessing aspects of the reliability and validity of a central concept in political communication research. *Communication Method and Measures*, 3(4), 223-244. doi:10.1080/19312450903378925.
- Eveland, W.P. & Scheufele, D.A. (2000). Connecting news media use with gaps in knowledge and participation. *Political Communication*, 17, 215-237. Retrieved May 4, 2014 from <http://www.tandfonline.com/loi/upcp20>.
- Eyo, R. (June 5, 2013). @policy-NG: A repository for Nigeria’s policy discourse (Weblog). Retrieved from [www.wordpress.com](http://www.wordpress.com).
- Faul, F., Erdfelder, E., Buchner, A., & Lang, A.G (2009). Statistical power analyses using G\*Power 3.1: Tests for correlation and regression analyses. *Behavior Research Methods*. 41(4), 1149-1160. doi:10.3758/brm.41.4.1149.
- Faul, F., Erdfelder, E., Lang, A-G & Buchner, A. (2007). G\*power 3: A flexible statistical power analysis programme for the social, behavioral and biomedical sciences. *Behavior Research Methods*. 39(2), 175-191. doi:10.3758/bf03193146.
- Factbound Research (2011). Social media habits and lifestyle. Factbound Research Limited. Retrieved on May 4, 2014 from [www.slideshare.net](http://www.slideshare.net).
- Fei, C.S. (2010). *Facebook in building social capital: A study of Malaysian College Students*. (Master’s Thesis, Universiti Utara Malaysia). Available in Universiti Utara Library Data Base.
- Fenton, N., & Barassi, V. (2011). Alternative media and Social Networking Sites: The politics of individuation and political participation. *The Communication Review*, 14(3), 179–196. doi:10.1080/10714421.2011.597245.
- Fennema, M., & Tillie, J. (1999). Political participation and political trust in Amsterdam : Civic communities and ethnic networks. *Journal of Ethnic and Migration Studies*, 25(4), 703-726. doi:10.1080/1369183X.1999.9976711.

- Field, A. (2009). Discovering statistics using SPSS (3<sup>rd</sup> ed). London: Sage Publications.
- Fink, A. (1995). The survey handbook (Vol. 1). *Thousand Oaks, CA*.
- Fornell, C. & Larcker, D.F. (1981). Evaluating structural equation modelling with unobservable variable and measurement error. *Journal of Marketing Research*. 18(1), 39-50.
- Fraile, M. (2011). Widening or reducing the knowledge gap? Testing the media effects on political knowledge in Spain (2004-2006). *The International Journal of Press / Politics*. 16(2), 163-184. doi:10.1177/1940161210388413.
- Freedom House (2011). “Freedom on the net 2011”, Retrieved November 11, 2014 from <http://www.freedomhouse.org/report/freedom.net/freedom.net.2011>.
- Freelon, D. G. (2010). Analyzing online political discussion using three models of democratic communication. *New Media & Society*, 12(7), 1172–1190. doi:10.1177/1461444809357927.
- Freeman, K.S. (2013). News consumption behaviour of young adults in Malaysia. *International Journal of Social Science and Humanity*, 3(2), 121.
- Friedland, L. a. (2010). Communication and democracy in a networked society: Review essay of media and political engagement and the Internet and democratic citizenship: Peter Dahlgren, media and political engagement: citizens, communication, and engagement. *The International Journal of Press/Politics*, 15(3), 362–370. doi:10.1177/1940161210369646.
- Garland, R. (1990). A Comparison of three forms of semantic differential scale. *Marketing Bulletin*, 1(1), 19-24. Retrieved December 20, 2015 from <http://marketingbulletin.massey>.
- Gaskin, B. (2011). *Religious commitment and political information: How religious structures political understanding*. (Doctoral Dissertation, the Florida State University). Available on ProQuest Dissertation and Thesis Database.
- Gaskins, B., & Jerit, J. (2012). Internet news: is it a replacement for traditional media Outlet? *The International Journal of Press Politics*, 17(2), 190-213, doi: 10.1177/1940161211434640.
- Geisser, S. (1974). A predictive approach to the random effect model. *Biometrika*, 61(1), 101-107. Doi:10.1093/biomet/61.1.101.

- Geladi, P., & Kowalski, B. R. (1986). Partial least-squares regression: a tutorial. *Analytica chimica acta*, 185, 1-17.
- George, C. (2005). The Internet's political impact and the penetration/participation paradox in Malaysia and Singapore. *Media, Culture & Society*, 27(6), 903-920. doi:10.1177/0163443705057678.
- Gibson, R. K., Howard, P. E., & Ward, S. (2000). Social capital, Internet connectedness & political participation: A four-country study. *International Political Science Association, Quebec, Canada*.
- Gibson, R. K. & Cantijoch, M., (2013). Conceptualizing and measuring participation in the age of the Internet: Is online political engagement really different to offline? *The Journal of Politics*, 75(3): 701-716. doi: 10.1017/s0022381613000431.
- Gil de Zúñiga, H., Copeland, L., & Bimber, B. (2013). Political consumerism: Civic engagement and the social media connection. *New Media & Society*, 16(3), 488-506. doi:10.1177/1461444813487960.
- Gil de Zúñiga, H., Jung, N., & Valenzuela, S. (2012). Social media use for news and individuals' social capital, civic engagement and political participation. *Journal of Computer-Mediated Communication*, 17(3), 319-336.
- Gil de Zuniga, H., Molyneux, L., & Zheng, p. (2014). Social media, political expression and political participation: Panel analysis of lagged and concurrent relationship. *Journal of Communication*. 64(4), 612-634. doi: 10.1111/jam12103.
- Gil de Zuniga, H., Puig-l-Abril, E., & Rojas, H. (2009). Weblogs, traditional sources online and political participation: An assessment of how the Internet is changing the political environment. *New Media and Society*, 11(4), 553-574. doi:10.1177/1461444809102960.
- Gil de Zuniga, H., Veenstra, A., Vraga, E., & Shah, D. (2010). Digital democracy: reimagining pathway to political participation. *Journal of Information Technology and Politics*, 7(1), 36-51. doi: 10.1080/19331680903316742.
- Glasford, D. E. (2008). Predicting Voting Behavior of Young Adult: The Importance of Information, Motivation and Behavioral Skills. *Journal of Applied Social Psychology*, 38(11), 2648-2672.
- Global Media Insight (2016). Twitter users' statistics 2016. Retrieved from [www.globalmediainsight.com](http://www.globalmediainsight.com) on May 13, 2016.

- Goi, C. (2014). The impacts of social media on the local commercial banks in Malaysia. *Journal of Internet Banking and Commerce*, 19(1). Retrieved October 15, 2014 from <http://www.arraydev.com/commerce/jibcl>.
- Goldberg, G. (2011). Rethinking the public/virtual sphere: The problem with participation. *New Media Society*, 13(5), 739-754. doi:10.1177/1461444810379862.
- Greeley, A.M. (1974). Religion in a secular society. *Social Research: An International Quarterly*, 46(1), 226-240. Retrieved November 2, 2014 from <https://epay.newschool.edu>.
- Grönlund, K & Milner, H. (2006). Determinants of political knowledge in comparative perspective. *Scandinavian Political Studies*, 29(4), 381-406. doi:org/0.1111/j.1467.9477.2006.00157.x.
- Grönlund, A. & Wakabi, W. (2015). Citizens' use of new media in authoritarian regimes: A case study of Uganda, 67(1). *The Electronic Journal of Information System in Developing Countries* retrieved January 3, 2015 from [www.ejisdc.org](http://www.ejisdc.org)
- Groshek, J. (2012). Forecasting and observing: A cross-methodical consideration of Internet and mobile phone diffusion in the Egyptian revolt. *International Communication Gazette*, 74(8), 750-768. doi:10.1177/174804851245914778.
- Groshek, J. & Dimitrova, D.V. (2011). A cross-section of voter learning, campaign interest and intention to vote in the 2008 American election: Did web 2.0 matter? *Communication Studies Journal*, 9, 355-375.
- Gregg, M. B. (2008). *Field epidemiology*. Oxford University Press, USA.
- Guba, E.G. & Lincoln, Y.S. (1994). Competing paradigms in qualitative research in V.K. Denzin & Y.S. Lincoln (Eds), *Handbook of Qualitative Research*. Thousand Oaks, California: Sage.
- Gustafsson, N. (2012). The subtle nature of Facebook politics: Swedish social network site users and political participation. *New Media & Society*, 14(7), 1111-1127. doi:10.1177/1461444812439551.
- Hadar, S. & Gabler, S. (2003) Sampling and estimation in Harkness, J.A., Van de Vijver, F.J.R. & Mohler, P.P. (ed) cross-cultural survey methods. (pp. 117-134). Hoboken, New Jersey: Wiley-interscience.

- Haenlein, M. & Kaplan, A.M. (2004). A beginner's guide to partial least square analysis. *Understanding Statistics*, 3(4), 283-297. Lawrence Erlbaum Associates.
- Hair, J.F., Black, W.C., Babin, B.J., & Anderson, R.E. (2010). Multivariate data analysis (7<sup>th</sup> ed.). Upper Saddle River, New Jersey: Prentice Hall.
- Hair, J.F., Black, W.C., Babin, B.J., Anderson, R.E., & Tatham, R.L. (2006). Multivariate data analysis (6<sup>th</sup> ed.). Upper Saddle River, New Jersey: Pearson/Prentice Hall.
- Hair, J.F., Hult, G.T.M, Ringle, C.M. & Sarstedt, M. (2011). Partial least squares structural equation modelling: Indeed a silver bullet. *Journal of Marketing Theory and Practice*, 19(2), 139-151. doi:10.2753/mtp1069-6679190202.
- Hair, J.F., Hult, G.T.M, Ringle, C.M. & Sarstedt, M. (2014). *A Primer on partial least squares structural equation modelling (PLS-SEM)*. London: Sage Publications.
- Hair, J. F., Sarstedt, M., Pieper, T. M., & Ringle, C. M. (2012). The use of partial least squares structural equation modeling in strategic management research: a review of past practices and recommendations for future applications. *Long range planning*, 45(5), 320-340. Retrieved May 12, 2015 from <http://www.elsiever.com/locate/lrp>.
- Hair, J. F., Sarstedt, M., Ringle, C. M., & Mena, J. A. (2012). An assessment of the use of partial least squares structural equation modeling in marketing research. *Journal of the Academy of Marketing Science*, 40(3), 414-433. doi:10.1007/s1174-011-0261-6.
- Hair, J. F., Wolfenbarger, M. F., Ortinau, D. J., & Bush, R. P. (2008). *Essentials of marketing research (2<sup>nd</sup> ed)*. McGraw-Hill/Higer Education.
- Hamid, N., Ishak, M.S., Ismail, S.A. & Yazam, S, N, M, (2013). Social media usage among university students in Malaysia. *Social Media and the New Academic Environment: Pedagogical Challenges*, 244-255. doi:10.4018/978-1-4666-2851-9.ch012.
- Hamid, N. A., Ishak, M. S., & Yazam, S. S. N. M. (2015). Facebook, YouTube and Instagram: Exploring Their Effects on Undergraduate Students' Personality Traits. *The Journal of Social Media in Society*, 4(2).
- Hamid, N. A., Ishak, M. S., & Yusof, N. (2015). Measurement model of empowerment for women and girls using social media. *e-BANGI*, 10(1), 84.

Hamid, N. A, & Mustaffa, C. S. (2007). Media Literacy: Accessibility and Skills among Malaysian Women. *Intercultural Communication Studies*, 16(3), 110-20.

Hamid, N., & Zaman, H.B. (2009). Framework of Malaysian knowledge society: results from dual data approach. International Journal of Social, Management, Economic and Business Engineering, 3(10), 366-370. Retrieved May 4, 2014 from [www.wasetorg.com](http://www.wasetorg.com)

Hamid, N. A., & Zaman, H. B. (2010, June). ICT dimension and indicators towards building a Knowledge Society in Malaysia: A measurement model. In *Information Technology (ITSim), 2010 International Symposium in* (Vol. 1, pp. 1-6). IEEE.

Hantrais, L. (1995). Comparative research methods. *Social Research Update*. 13. Department of Sociology, University of Surrey, Guildford, England.

Hantrais, L. & Mengen, S. (1996). Method and management of cross-national social research in Hantrais, L and Mangen, S (1996) *Cross-national research methods in the social sciences*. (pp.1-12). London: Pinter.

Hari, I. S. (2014). The Evolution of Social Protest in Nigeria: The Role of Social Media in the "# Occupy Nigeria" Protest. *International Journal of Humanities and Social Science Invention*, 3(9), 33-39. Retrieved May 15, 2015 from [www.ijhssi.org](http://www.ijhssi.org).

Herbermas, J. (1991). *The structural transformation of the public sphere. An inquiry into a category of bourgeois society*. Cambridge, Massachusetts: The MIT Press.

Henseler, J. (2010). On the convergence of the partial least squares modelling algorithm. *Computer Statistics*, 15, 107-120. doi:10.1007/s00180-009-0164-x

Henseler, J. (2012). PLS-MGA: A non-parametric approach to partial least squares-based multi-group analysis. In *Challenges at the interface of data analysis, computer science, and optimization* (pp. 495-501). Springer Berlin Heidelberg.

Henseler,J., Dijkstra, T.K., Sarstedt,M., Ringle,C.M., Diamatopoulos,A., Straub, D.W., Ketchen, jr. D., Hair, J.F., Hult, G.T.M., & Calantone, R. J. (2014). Common beliefs and reality about partial least square: Comment on Ronkke and Everman (2013). *Organizational Research Methods*, 1-28. doi:10.1177/1094428114526928

- Henseler, J., & Fassott, G. (2010). Testing moderating effects in PLS path models: An illustration of available procedures. In *Handbook of partial least squares* (pp. 713-735). Springer Berlin Heidelberg.
- Henseler, J., Ringle, C. M., & Sarstedt, M. (2015). A new criterion for assessing discriminant validity in variance-based structural equation modeling. *Journal of the Academy of Marketing Science*, 43(1), 115-135.
- Henseler, J., Ringle, C.M. & Sarstedt, M. (2012). Using partial least squares path modelling in advertising research: Basic concepts and recent issue in Okazaki, S (Eds.) *Handbook of Research on International Advertising*. Massachusetts: Edward Elgar Publishing, Inc.
- Henseler, J., Ringle, C.M., & Sinkovics, R.R. (2009). The use of the PLS-SEM analysis in international marketing. In R.R. Sinkovics and P.V. Ghauri (eds), *Advances in International Marketing*, 20(1), 277-320. Bingley: Emerald.
- Hirzalla, F. & Van Zoonen, L.V. (2011). Beyond the online/offline divide: How youth's online and offline civic activities converge. *Social Science Computer Review*, 29(4), 481-498. doi: 10.1177/0894439310385538.
- Hoffman, L.H. (2012). Participation or communication? An explication of political activity in the Internet age. *Journal of Information Technology and Politics*, 9(3), 217-233. Taylor and Francis.
- Hooghe, M. (2014). Conceptualizing political participation. *Acta Politica*, 49(3), 337-348. doi:10.1057/ap.2014.7.
- Hosch-Dayican, B. (2014). Conceptualizing political participation. *Acta Politica*, 49 (3), 337-348. doi:10.1057/ap.2014.7.
- Hosch-Dayican, B., Amrit, C., Aarts, K. & Dassen, A. (2014). How do online citizens persuade fellow voter? Using Twitter during the 2012 Dutch parliamentary election campaign. *Social Science Computer Review*. doi:10.117710894439314538200
- Huntington, S. (1991). *The third wave: Democratization in the late twentieth century*. Norman, OK: University of Oklahoma Press.
- Huntington, S. (1996). *The clash of civilization and the remaking of world order*. New York: Simon and Schuster.
- Hur, S. J. & Kwon, H.Y. (2014). The Internet and inequality in democratic engagements : Panel evidence from South Korea. *International Journal of*

*Communication*, 8, 1174–1194. Retrieved May 4, 2014 from <http://www.ijoc.org>.

Hyun, K. D. (2012). Americanization of web-based political communication? A comparative analysis of political blogospheres in the United States, the United Kingdom, and Germany. *Journalism & Mass Communication Quarterly*, 89(3), 397–413. doi:10.1177/1077699012447919.

Ifukor, P. (2010). “Elections” or “selections”? Blogging and Twittering the Nigerian 2002 general elections. *Bulletin of Science Technology and Society*, 30(6), 398-414. doi:10.1177/0270467610380008.

Inglehart, R. (1977). *The silent revolution: Changing values and political styles among western publics*. Princeton, New Jersey: Princeton University.

Inglehart, R. (1990). *Culture shift in advanced industrial society*. Princeton, New Jersey: Princeton University

Inglehart, R. & Catterberg, G. (2002). Trend in political action: The developmental trends and the post-Honeymoon decline. *International Journal of Comparative Sociology*. 43(3-5), 300-316. doi: 10.1177/002071520204300305

Internet World Statisticcs (2015). Internet usage in Asia. Retrieved form [www.Internetworkstatistics.com](http://www.Internetworkstatistics.com) on May 13, 2016.

Iroghama, I.P. (2012). Trust in government. A note from Nigeria. *International Journal of Academic Research in Economics and Management Science*, 1(2), 258-267. Retrieved June 2, 2014 from <http://eserv.uum.edu.my/docview/1437333369?account.d==42599>.

Iwogwagh, N. S. & Okoro, G. S. (2012). *Social Media and Citizen Engagement in the 2011 Presidential Election in Nigeria*. Paper presented at the International Conference on Communication, Media and Technology Design, Istanbul Turkey 9-11 May, 2012.

Iyengar, S., & Jackman, S. (2004). *Technology and politics : Incentives for youth participation*, 24. UK: Center for Information Research on Civic Learning and Engagement.

Jasperson, A.E. & Yun, H.J. (2007). Political advertising effects and America's racially diverse newest voting generation. *American Behavioural Scientist*, 50(9), 1112-1123. doi:10.1177/0002764207300038

- Johnson, T. J., & Kaye, B. K. (2003). A boost or bust for democracy? How the web influenced political attitudes and behaviors in the 1996 and 2000 presidential elections. *Press/Politics*, 8(3), 9-34. doi: 10.1177/10811801x03252839.
- Johnson, T. J., & Kaye, B. K. (2009). In blog we trust? Deciphering credibility components the Internet among politically interested Internet users. *Computers in Human Behavior*, 25(1), 175–182. doi:10.1016/j.chb.2008.08.004.
- Johnson, T., & Kaye, B.K. (2010). Choosing is believing? How Web gratifications and reliance affect Internet credibility among politically interested users. *Atlantic Journal of Communication*, 18(1), 1-21.
- Johnson, T. J., & Kaye, B. K. (2014). Site effects: How reliance on social media influences confidence in the government and news media. *Social Science Computer Review*, 1-8. doi:10.1177/0894439314537029.
- Johnson, T. J., & Kaye, B. K. (2014). Credibility of Social Network Sites for political information among politically interested Internet Users. *Journal of Computer Mediated Communication*, 19(4), 957-974. dio:10.1111/jcc4.12084.
- Jones-Correa, M .A. & Leal, L.D. (2001). Political participation: Does religion matter? *Political Research Quarterly*, 54(4), 751-770. doi:10.1177/106591290105400404.
- Jordan, G., Pope, M., Wallis, P., & Iyer, S. (2014). The relationship between openness to experiences and willingness to engage in online political participation is influenced by news consumption. *Social Science Computer Review*, 1-17. doi:10.1177/0894439314534590.
- Kaplan, A.M., & Haenlein, M. (2010). Users of the world unite. The challenges and opportunities of social media. *Business Horizons*, 53(1), 59-68. doi:10.1016/j.bushor.2009.09.003.
- Kaplan, S. (2013). Nigeria's potential for sectarian conflict. Retrieved November 7, 2014 from [www.fragilestates.org/category/religion/africa](http://www.fragilestates.org/category/religion/africa).
- Kasmani, M. F., Sabran, R., & Ramle, N. (2014). Can Twitter be an Effective Platform for Political Discourse in Malaysia? A Study of# PRU13. *Procedia-Social and Behavioral Sciences*, 155, 348-355.
- Kasmani, F., Sabran, R. & Ramle, N.A. (2014). Who is tweeting on #PRU13? *Asian Social Science*, 10(8), 144. doi:10.5539/ass.V1on18pI44

- Kaufhold, K., Valenzuela, S., & de Zuniga, H. G. (2010a). Citizen journalism and democracy: How user-generated news use relates to political knowledge and participation. *Journalism & Mass Communication Quarterly*, 87(3-4), 515–529. doi:10.1177/107769901008700305.
- Kaye, B.K. (2010). Between a Barack and a net place: Users and uses of Social Network Sites and blogs for political information. In Z. Papacharissi (Ed.), *the Networked Self Identity, Community, & Culture on Social Networking Sites*, pp. 208-231. New York, US: Routledge.
- Kaye, B. K., & Johnson, T. J. (2004). A web for all reasons: uses and gratifications of Internet components for political information. *Telematics and Informatics*, 21(3), 197–223. doi:10.1016/S0736-5853(03)00037-6.
- Ke, L., & Starkey, H. (2014). Active citizens, good citizens, and insouciant bystanders: The educational implications of Chinese university students' civic participation via social networking. *London Review of Education*, 12(1), 50–62. Retrieved November 20, 2014 from <http://www.ingentaconnect.com/content/ioep>.
- Kenneth, A.N. & Odoemelam, C.C. (2012). Social media, electioneering and sustenance of democracy in Africa: A “SWOT” Analysis. *Africa Media and Democracy Journal*. 1(1). Retrieved May 4, 2014 from <http://www.amdme.journal.net>.
- Kenski, K., & Stroud, N.J. (2006). Connections between Internet use and political efficacy, knowledge and participation. *Journal of Broadcasting and Electronic Media*, 50(2), 173-192. doi:10.1207/515506878j0bem5002\_1.
- Keyton, J. (2015). *Communication research: Asking questions and finding answers* (4<sup>th</sup> ed.).New York: McGraw Hill Higher Education.
- Khan, M.S., Khan, I., Khan, A.A., Jan, F., Ahmad, R., & Rauf, H. (2015). The promotion of democratic behavior and the role of media, 6(1) Journal of Education and Practice. Retrieved May 13, 2015 from [www.iiste.org](http://www.iiste.org)
- Khasawneh, A.M.S. (2012). *Analysis of web 2.0 technologies for problem- based and collaborative learning*. (Master's Thesis, Universiti Utara Malaysia). Universiti Utara Malaysia Library.
- Kim, D., & Johnson, T. J. (2009). A Shift in Media Credibility Comparing Internet and Traditional News Sources in South Korea. *International Communication Gazette*, 71(4), 283-302.

- Kim, M. & Park, H.W. (2012). Measuring Twitter-based political participation and deliberation in the South Korean context by using Social Network and triple helix indicators. *Scientometrics*, 90, 121-140. doi:10.1007/511192-011-0508-5.
- Kirk, R., & Schill, D. (2011). A digital agora: Citizen Participation in the 2008 presidential debates. *American Behavioral Scientist*, 55(3), 325–347. doi:10.1177/0002764210392167.
- Koltsova, O., & Shcherbak, A. (2014). ‘LiveJournal libra!’ The political blogosphere and voting preference in Russia in 2011-2012. *New Media & Society*, 17(10), 1715-1732. doi:10.1177/1461444814531875.
- Kotrlík, J. W., & Higgins, C. C. (2001). Organizational research: Determining appropriate sample size in survey research appropriate sample size in survey research. *Information technology, learning, and performance journal*, 19(1), 43.
- Krejcie, R.V. & Morgan, D.W. (1970). Determining sample size for research activities. *Educational and Psychological Measurement*, 36, 607-610. Retrieved November 11, 2014 from [www.delsiegle.com](http://www.delsiegle.com).
- Kruikemeier, S., Van Noort, G., Vliegenthart, R., & De Vreese, C. H. (2014). Unravelling the effects of active and passive forms of political Internet use: Does it affect citizens’ political involvement? *New Media & Society*, 16(6), 903-920. doi:10.1177/1461444813495163.
- Kurzman, C. (1998). Waves of Democracy. *Studies in Comparative International Development*, 33(1), 42-64. doi:10.1007/bf02788194
- Kushin, M. J., & Yamamoto, M. (2010). Did social media really matter? College students’ use of online media and political decision making in 2008 elections. *Mass Communication and Society*, 13(5), 608-630. doi:10.1080/152054362010.516863.
- Kwak, H., Lee, C., Park, H., & Moon, S. (2010, April). What is Twitter, a social network or a news media?. In *Proceedings of the 19th international conference on World Wide Web* (pp. 591-600). ACM.
- Kwintessential (2014). Malaysia: Language, culture, customs and etiquette. Retrieved November 8, 2014 from [www.kwintessential.co.uk/religion/Christianity.html](http://www.kwintessential.co.uk/religion/Christianity.html).
- Lall, M. (2014). Engaging the youth: Citizenship and political participation in Pakistan. *Commonwealth and Comparative Politics*. 52(4) 535-562. doi.org/10.1080/14662043.2014.959288.

- Landman, T. (2008). Issues and Methods in comparative politics: An introduction (3<sup>rd</sup> ed). Oxon: Routledge.
- Larreguy, H.A. & Marshall, J. (2015). The effect of education on civic and political engagement in non-consolidated democracies: evidence from Nigeria
- Larsson, A. O., & Moe, H. (2012). Studying political microblogging: Twitter users in the 2010 Swedish election campaign. *New Media & Society*, 14(5), 729-747. doi:10.1177/1461444811422894.
- Leaping Post (2014). Twitter in Malaysia: Population and insights. Retrieved December 15, 2014 from [www.leapingpost.com](http://www.leapingpost.com).
- Lee, N., Shah, D.V. & McLeod, J.M. (2012). Processes of political socialization: A communication mediation approach to youth civic engagement. *Communication Research*, 40(5), 669-697. doi: 10.1177/0093650212436712.
- Leech, N. L., Barrett, K. C., & Morgan, G. A. (2005). *SPSS for intermediate statistics: Use and interpretation*. Psychology Press.
- Lijphart, A. (1975). The comparable case strategy in comparative research. *Comparative political studies*, 8(2), 169-181.
- Livingstone, S., Bober, M., & Helsper, E. J. (2011). Active participation or just more information? *Information, Communication & Society*, 8(3), 287–314. doi:10.1080/13691180500259103
- Lohmöller, J.-B. (1989). *Latent variable path modeling with partial least squares*. Heidelberg, Germany: Physica.
- Lorentzen, D. G., (2013). Polarization in political Twitter conversations. Emerald Group Publishing Limited.
- Lumsden, L. J. (2013). How independent? An analysis of GE13 coverage by Malaysia's online news portal coverage. *Malaysian Journal of Communication*, 29(2), 1-30.
- Mahrer, H. (2003). *SMP: A Model for the Transformation of Political Communication*. Vienna, Austria: Legend Research.
- Malaysian Youth Community (2008). Youth Malaysia. Retrieved November 26, 2014 from <http://www.youth.community.com.my/guide/youth-forum>.

- Malhotra, N., Hall, J., Shaw, M., & Oppenheim, P. (2006). *Marketing Research. An applied orientation* (3<sup>rd</sup> ed.). French Forest: Prentice Hall.
- Management Information System (2015). Undergraduate Statistics. Management Information System (MIS), Ahmadu Bello University, Zaria.
- Mann, X.W. (2011). *Social capital and civic voluntarism. A socio-political explanation of political participation.* (Bachelors Thesis, Universiteit Twente). Available on ProQuest Dissertation and Thesis Data Base.
- Margolis, M.F. (2015). Rethinking the relationship between religion and politics. a test of the life cycle theory.
- Mathers, N., Fox, N & Hunn, A. (2009). Survey and questionnaires. National Institute for health research.
- Mazzoleni, G. & Schulz, W. (1999). “Mediatization” of politics: A challenge for democracy? *Political Communication*, 16(3), 247-261. doi:10.1177/1940161212452450.
- McKenzie, B. D. (2004). Relationship between social networks, indirect mobilization and African-American political participation. *Political Research Quarterly*, 57(4), 621-631. doi:10.1177/106591290405700410.
- McLeod, J. M., & McDonald, D. G. (1985). Beyond simple exposure: Media orientations and their impact on political processes. *Communication Research*, 12(1), 3–33. doi:10.1177/009365085012001001.
- McLeod, J.M., Scheufele, D.A., & Moy, P. (1999). Community, communication and participation: The role of mass media and interpersonal discussion in local participation. *Political Communication*, 16(3), 315-336. doi:10.10801105846099198659.
- McLuhan, M. (1962). *The Gutenberg galaxy*. Canada: University of Toronto Press.
- McLuhan, M. (1964). *Understanding media: The extensions of man*, Cambridge, United Kingdom. The MIT Press.
- MCMC (Malaysian Communication and Multimedia Commission) 2012. Household use of the Internet survey 2011. Cyberjaya, Selangor Darul Ehsan. Malaysian Communication and Multimedia Commission.
- McQuail, D. (2010). *McQuail's mass communication theory* (6<sup>th</sup> ed.). Los Angeles, USA: McGraw Hill.

- Mondak, J. J. (2001). Developing valid knowledge scales. *American Journal of Political Science*, 45(1), 224-238. Retrieved December 26, 2015 from <http://www.jstor.org/stable/2669369>
- Mongkuo, M.V., Lyon, M.L., Hogan, M.B. & Delore, G. (2014). Identifying the antecedents of political engagement behavior among young adult college students. *Journal of Political Science and Public Affairs*, 2(3). doi: org/10/472/2332.0761.1000121
- Monsma, S.V. & Penning, J.M. (2010). "Religion and democratic citizenship" Paper presented at the annual Conference of the Southern Political Science Association. Atlanta, January 7-9, 2010.
- Moon, J.S. (2013). Attention, attitude, and behavior: Second-level agenda-setting effects as a mediator of media use and political participation. *Communication Research*, 40(5), 698-719. doi: 10.1177/0093650211423021.
- Moy, P., Torres, M., Tanaka, K., & McCluskey, M. R. (2005). Knowledge or trust? Investigating linkages between reliance and participation. *Communication Research*, 32(1), 59-86. doi: 10.1177/0093650204271399.
- Mushtaq, S., & Baig, F. (2015). The Relationship of TV News Channels Consumption with Political Participation, Political Knowledge and Civic Engagement. *Asian Social Science*, 11(12), 46.
- Mustapha, L. K., & Wok, S. (2014). Online newspapers use and homeland political participation potentials of the Nigerian students in Malaysia. *e-BANGI*, 9(2), 74.
- National Youth Policy (2001). National youth policy and strategic plan action, Retrieved November 26, 2014 from [www.youthpolicy.org](http://www.youthpolicy.org).
- Nelson, D.C. (1977). *Ethnicity and political participation in New York City: A theoretical and empirical Analysis*. (Doctoral Dissertation, University of Columbia). Available on ProQuest Dissertation and Thesis Database.
- Netemeyer, R. G., Bearden, W. O., & Sharma, S. (2003). *Scaling procedures: Issues and applications*. Thousand Oaks, CA: Sage.
- Net Up Asia (2014). 22 Facts that you must know about social media in Malaysia. Retrieved on December 5, 2014 from [www.netupasia.com](http://www.netupasia.com).
- Neuman, W.L. (2011). *Social research methods: Qualitative and quantitative approaches* (7<sup>th</sup> ed.) Boston: Allyn and Bacon.

Niebler, S., Urban, C., Goldstein, K., & Fowler, E. F. (2013). Why Measuring Exposure Matters.

Nigerian Monitor (2013). Social media and the Nigerian youth. Retrieved on May 4, 2014 from <http://www.nigerianmonitor.com>.

Nor, W.A.W.M, Gapor, S.A., Abu Bakar, M.Z., & Harun, Z. (2011). Some socio-demographic determinants of political participation. Paper Presented at the 2011 International Conference on Humanities, Society and Culture, Vol 20. Singapore: ACSIT Press.

Norris, P. (2001a). *A virtuous circle: Political communication in post-Industrial societies*. New York: Cambridge University Press.

Norris, P. (2001b). *Digital divide? Civic engagement, information poverty and the Internet worldwide*. New York: Cambridge University Press.

Norris, P. (2002) *Democratic Phoenix: Reinventing Political Activism*. Cambridge: Cambridge University Press.

Nowak, S. (1977). The strategy of cross-national survey research for the development of social theory. *Cross-National Comparative Survey Research: Theory and Practice*. Oxford: The European Coordination Center for Research and Documentation in Social Services.

Nwoye, K. O., & Okafor, G. O. (2014). New Media and Political Mobilization in Africa: The Nigerian Experience. *American Journal of Social Sciences*, 2(2), 36.

Ocran, R.K. (2014). *Women's political participation: A comparative study on Ghana and Tanzania*. (Master's Thesis, University of Eastern Finland). University of Eastern Finland Library.

Odunlami, D. (2014). Media access and exposure as determinants of political knowledge of Nigerian undergraduates. *New Media and Mass Communication*. Retrieved October 28, 2014 from [www.iiste.org](http://www.iiste.org).

Ogunlesi, T. (2013). *Youths and social media in Nigeria*. Retrieved from [www.sodalbakers.cominfographic](http://www.sodalbakers.cominfographic).

Ojebuyi, B.R. & Salawu, A. (2015). Media Literacy, access and political participation among South African black youths: A study of North West University Mafikeng Campus. *Journal of Communication*, 6(1).

- Ojo, O.V. (2014). Decoding the potency of ‘Web 2.0’ in Nigeria. *International Journal of Politics and Good Governance*, 5(2).
- Okoro, N., & Nwafor, K. A. (2013). Social media and political participation in Nigeria during the 2011 general elections: The lapses and the lessons. *Global Journal of Arts and Humanities and Social Science*. 1(3), 29-46.
- Olabamiji, O. M., (2014). Use and misuse of the new media for political communication in Nigeria’s 4th Republic, 4(2), 44–53. Retrieved from [www.isste.org](http://www.isste.org).
- Ondieki, K.G. (1997). *Political corruption in Sub-Saharan Africa: A comparative assessment of Kenya, Nigeria and Zaire/Congo*. (Master’s Thesis, University of Nevada). Available on Uni Microfilms International Data Base.
- O'Neill, B. (2006). *Human Capital, Civic Engagement, and Political Participation: Turning Skills and Knowledge into Engagement and Action*. Ottawa: Canadian Policy Research Networks.
- Omodia, S.M. (2011). Political elites and the challenge of free and fair elections in the Nigerian fourth republic. *Canadian Social Science*, 7(5), 111-115. doi:1923669720110705.435.
- Oser, J., Hooghe, M., & Marien, S. (2012). Is online participation distinct from offline participation? A latent class analysis of participation types and their stratification. *Political Research Quarterly*, 66(1), 91–101. doi:10.1177/1065912912436695.
- Osborne, J. W., & Overbay, A. (2004). The power of outliers (and why researchers should always check for them). *Practical assessment, research & evaluation*, 9(6), 1-12. Retrieved January 11, 2016 from <http://PAPEonline.net/getvn.asp?v=9&n=6>
- Osgood, C.E., Suci, C.J., & Tannenbaum, P.H. (1957). *The measurement of meaning*. Urbana: University of Illinois Press.
- Ostman, J. (2012). Information, expression, participation: How involvement in user-generated content relates to democratic engagement among youths. *New Media and Society*, 14(6), 1004-1021. doi: 10.1177/1461444812438212.
- Otas, B. (2011). Nigerian youths silent no more. Retrieved June 2, 2014 from <http://thinkafricapress.com>.

Oxford Dictionaries (2014). Youth. Retrieved November 15, 2014 from Oxford dictionaries.com/words.

Oxford University Press (2013). Definitions of political participation. Retrieved on November, 15 from <http://global.oup.com/uk>.

Pallant, J. (2010). *SPSS survival manual: A step by step guide to data analysis using SPSS* (4<sup>th</sup> ed). New York: Open University Press.

Pandian, S. (2014a). University students and voting behaviour in general elections: perceptions on Malaysian political parties' leadership. *Asian Social Science*, 10(18), 225. doi: 10.5539/ass.vion18p225.

Pandian, S. (2014b). The Importance of Issues for the Youth in Voter Decision Making: A Case Study among University Students in Malaysia. *World Academy of Science, Engineering and Technology, International Journal of Social, Behavioral, Educational, Economic, Business and Industrial Engineering*, 8(8), 2723-2727.

Papacharissi, Z. (2002). The Virtual Sphere: The Internet as a public sphere. *New Media & Society*, 4(1), 9-27. doi:10.1177/14614440222226244.

Park, C. S. (2013). Does Twitter motivate involvement in politics? Tweeting, opinion leadership, and political engagement. *Computers in Human Behavior*, 29(4), 1641-1648.

Park, H.L. (2007). *Internet effects on political participation: Digital divide, causality and new digital divide*. (Doctoral Dissertation, Purdue University). Available on ProQuest Dissertation and Thesis Database.

Pasek, J., Kenski, K., Romer, D., & Jamieson, K.H. (2006). America's youth and community engagement: How use of mass media is related to civic activity and political awareness in 14-to 22-year olds. *Communication Research*, 33(3), 115-135. doi: 10.1177/0093650206287073.

Pattie, C., Seyd, P., & Whiteley, P. (2003). Citizenship and civic engagement: Attitude and Behaviour in Britain. *Political Studies*. 51. 443-468.

Pattie, C., Seyd, P., & Whiteley, P. (2004). *Citizenship in Britain: Values, participation and democracy*. Cambridge: Cambridge University Press.

Pempek, T. A., Yermolayeva, Y. A., & Calvert, S. L. (2009). College students' social networking experiences on Facebook. *Journal of Applied Developmental Psychology*, 30(3), 227–238. doi:10.1016/j.appdev.2008.12.010.

- Podsakoff, P. M., MacKenzie, S. B., Lee, J. Y., & Podsakoff, N. P. (2003). Common method biases in behavioral research: a critical review of the literature and recommended remedies. *Journal of Applied Psychology*, 88(5), 879.
- Podsakoff, P. M., & Organ, D. W. (1986). Self-reports in organizational research: Problems and prospects. *Journal of Management*, 12(4), 531-544. doi:10.1177.014920638601200408.
- Policy and Legal Advocacy (2011). Social media and the 2011 elections in Nigeria. Policy and legal advocacy center.
- Porter, A. J., & Hellsten, I. (2014). Investigating participatory dynamics through social media using a multi-determinant “frame” approach: The case of climategate on YouTube. *Journal of Computer-Mediated Communication*, 19(4), 1024-1041. doi:10.1111/jcc4.12065.
- Potgieter, E. (2013). *Predictors of political participation in new democracies*. (Master's Thesis, Stellenbosch University). Retrieved May 13, 2014 from <http://schola.sun.ac.za>.
- Przeworski, A. & Teune, H. (1973). Equivalence in cross-national research. In Warnick, D.P. & Osherson, S. (ed). *Comparative Research Methods*, Englewood Cliffs, New Jersey: Prentice Hall. pp. 119-137.
- Putnam, R.D. (2000). *Bowling alone: The collapse and revival of American community*. New York, US: Simon and Schuster.
- Quintelier, E. & Theocharis, Y. (2012). Online political engagement, Facebook, and personality traits. *Social Science Computer Review*, 31(2), 280-290. doi:10.1177/0894439312462802
- Quintelier, E., & Vissers, S. (2008). The effect of Internet use on political participation: An analysis of survey results for 16-year-olds in Belgium. *Social Science Computer Review*, 26(4), 411-427. doi:10.1177/0894439307312631.
- Rahmawati, I. (2014). *Social media, politics and young adults: The impact of social media use on young adults' political efficacy, political knowledge and political participation towards 2014 Indonesia general election*. (Master's Thesis). Available of ProQuest Dissertation and Thesis Database.
- Raine, L., Smith, A. Schlozman, K.L., Brady, H. & Verba, S. (2012). Social media and political engagement. Pew Research Internet Project.
- Rajaratnam, U. D. (2009). Role of traditional and online media in the 12th general election, Malaysia. *Journal of South East Asia Research Centre for*

*Communications & Humanities*, 1(1), 79-95. Retrieved May 14, 2014 from www.searchtaylor.edu.my.

Raoof, J.K., Zaman, H.B., Ahmad, A. & Al-Qaraghuli, A. (2013). Using social network system as a tool for political change. *International Journal of Physical Sciences*, 8(12), 1143-1148. doi:10.5897/IJPS2013.3897

Razali, M.A. (2009). *Political culture and political participation in Malaysia, 2007-2008: Analytical survey*. (Master's Thesis, International Islamic University, Malaysia). Available of ProQuest Dissertation and Thesis Database.

Razali, S. Z. (2013). *Assessment of the performance of a resilient hybrid political system: The case of Malaysia*. (Doctoral Dissertation, University of Denver). Available of ProQuest Dissertation and Thesis Database.

Reinard, J.C. (2008). *Introduction to communication research*. New York, USA: McGraw-Hill.

Rigdon, E. E., Ringle, C. M., & Sarstedt, M. (2010). Structural modeling of heterogeneous data with partial least squares. *Review of marketing research*, 7 (7), 255-296.

Ringle, C. M., Sarstedt, M., & Straub, D. (2012). A critical look at the use of PLS-SEM in MIS Quarterly. *MIS Quarterly (MISQ)*, 36(1).

Ringle, C. M., Wende, S., & Will, A. (2005). SmartPLS 2.0 (beta). University of Hamburg, Hamburg. Retrieved November 15, 2015 from <http://www.smartpls.de/forum/index.php>

Ronkko, M. & Evermann, J. (2013). A critical examination of common beliefs about partial least squares path modelling. *Organizational Research Methods*, 16(3), 425-448. doi:10.1177/1094428112474693.

Rontynen, C.I.P.R. (2011). *Social media influence on political engagement. Examining the use of Facebook and Twitter in Alberta*. (Master's Thesis, University of Calgary). Available on ProQuest Dissertation and Thesis Database.

Ross, K., & Burger, T. (2014). Social media, political campaigning and the unbearable lightness of being there. *The International Encyclopedia of Political Science*, 66(1), 46-62. Doi: 10.1177/0032318714534106.

- Rusli, R. (2008). *The social impacts of political blogs on Perlis citizen*. (Master's Thesis, Universiti Utara Malaysia). Available in University Utara Malaysia Library.
- Salant, P. & Dillman, D.A. (1994). *How to conduct your own survey*. New York: Wiley
- Salawu, I.O. (2013). Deepening democratic culture in Nigeria: What role(s) for new media? *IOSR Journal of Humanities (IOSR-JHSS)*, 15(4). [www.iosrjournals.org](http://www.iosrjournals.org)
- Salawu, B. & Hassan, A.O. (2011). Ethnic politics and its implications for the survival of democracy in Nigeria. *Journal of Public Administration and Policy Research*. 3(2), 28-33. Retrieved May 4, 2014 from <http://www.academicjournals.org/jpaper>
- Saldana, M., McGregor, S.C. & Gil De Zuniga, H. (2015). Social Media as a public space for politics: Cross-national comparison of news consumption and participatory behaviors in the US and UK. *International journal of communication*. Retrieved November 29, 2015 from <http://www.researchgate.net>.
- Salim, S.M., Smith, W.T., & Bammer, G. (2002). Telephone reminders are a cost effective way to improve responses in post health surveys. *Journal of Epidemiology and Community Health*. 56(2) retrieved November 29, 2015 from <http://www.jstor.org/stable/25569634>
- Salkind, N. J. (1997). Exploring research (3<sup>rd</sup> ed.). Bartlett, JE, Kotrlík, JW, and Higgins, CC (2001). "Organizational Research: Determining Appropriate sample Size in Survey Research". *Information Technology, Learning, and Performance Journal*, 19(1), 43-50.
- Salman, A., Ibrahim, F., Abdullah, M. Y. H., Mustaffa, N., & Mahbob, M. H. (2011). The impact of new media on traditional mainstream mass media. *The Innovation Journal: The Public Sector Innovation Journal*, 16(3), 1-11.
- Salman, A., & Saad, S. (2015). Online Political Participation: A Study of Youth Usage of New Media. *Mediterranean Journal of Social Sciences*, 6(4), 88. doi:10.5901/mjss.2015.v6n4s3p88.
- Sani, M.A.M. (2014). The social media election in Malaysia: The 13<sup>th</sup> general election in 2013. *Kajian Malaysia*, 32(2), 123.
- Sani, M. A. M., & Zengeni, K. T. (2010, July). Democratisation in Malaysia: The impact of social media in the 2008 general election. In *Paper was presented to*

*the 18th Biennial Conference of the Asian Studies Association of Australia in Adelaide.*

Saravanmuttu, J. & Loh, F. (2006). Political culture in Malaysia: Contesting developmentalism in a multi ethnic society. Paper Prepared for 20<sup>th</sup> IPSA World Congress, July 9-13, 2006. Fukuoka, Japan.

Sarstedt, M., Henseler, J., & Ringle, C. M. (2011). Multigroup analysis in partial least squares (PLS) path modeling: Alternative methods and empirical results. *Advances in International Marketing*, 22(1), 195-218. doi: 10.1108/51474-7979(2011)0000022012

Sarstedt, M., Schwaiger, M., & Ringle, C. M. (2009). Do we fully understand the critical success factors of customer satisfaction with industrial goods? - extending Festge and Schwaiger's model to account for unobserved heterogeneity. *Journal of business market management*, 3(3), 185-206.

Sarstedt, M., & Wilczynski, P. (2009). More for less? A comparison of single-item and multi-item measures. *Die Betriebswirtschaft*, 69(2), 211.

Sattler, H., Volckner, F., Riediger, C., & Ringle, C.M. (2010). The impact of brand extension success drivers on brand extension price premiums. *International Journal of Research in Marketing*, 27(4), 319-328. doi:10.1016/j.ijresmar.2010.08.005.

Scheufele, D.A., Nisbet, M.C., & Grossard, D. (2003). Pathway to political participation? Religion, communication contexts and mass Media. *International Journal of Public Opinion Research*, 15(3), 300-324.

Seal World (2014). Amazing social media statistics in Nigeria. Retrieved on December 4, 2014 from [www.sealworld.com.ng](http://www.sealworld.com.ng).

Sekaran, U., & Bougies, R. (2010). *Research methods for business: A skill building approach* (5<sup>th</sup> ed.). New Jersey: John Wiley and Sons.

Seongyi, Y. & Woo-Young, C. (2011). Political participation of teenagers in the information era. *Social Science Computer Review*, 29(2), 242-249. doi:10.1177/0894439310363255.

Shaker, L. (2009). Citizens' Local political knowledge and the role of media access. *Journalism & Mass Communication Quarterly*, 86(4), 809–826. doi:10.1177/107769900908600406.

- Shehu Musa Yar'Adua Foundation (2011). Tracking social media: The social media tracking center and the 2011 Nigerian elections. Retrieved June 2, 2014, [www.yaradua.centre.org](http://www.yaradua.centre.org).
- Sheppard, J. (2012). *Examining Internet use and civic voluntarism in Australia and Canada*. Paper Presented at Canadian Political Science Association Annual Conference, University of Alberta, Edmonton.
- Shore, J (2014). Disappointed democrats or empowered citizens? Examining the effects of social policy on political equality. Paper Prepared for the PartiRep Workshop “Conceptualizing Political Participation” 25-26 September, 2014. Mannheim
- Smelser, N.J. (1973). The methodology of comparative analysis. In Warnick, D.P. & Osherson, S. (ed). *Comparative Research Methods*, Englewood Cliffs, New Jersey: Prentice Hall pp. 42-86.
- Smidt, C.E., Kevin, R., Den, D., Penning, J.M., Monsma, S.V., and Koopman, L. (2008). *Pews, prayers and participation: Religion and civic responsibility in America*. Washington D.C.: Georgetown University Press.
- Smith, A. (2013). Civic engagement in the digital age. Pew Research Center. Retrieved November, 10, 2014 from <http://www.pewinternet.org/Reports/2013/civicengagement.aspx>.
- Smith, A., & Rainie, L. (2008). The Internet and the 2008 election. Pew Internet and America Life Project. Retrieved November 10, 2014 from <http://www.pewinternet.org/pdfs/pip2008election.pdf>.
- Smith, C. (2014, Dec 5). By the numbers: 170 amazing Facebook users and demographic Statistics [Weblog Message]. Retrieved from <http://expandedramblings.com>
- Smith, C. (2016, April 3). By the numbers: 200+ amazing Facebook statistics [Weblog Message]. Retrieved from <http://expandedramblings.com>
- Smith, C. (2016, April 30). By the numbers: 170 amazing Twitter statistics [Weblog Message]. Retrieved from <http://expandedramblings.com>
- Social Bakers (2012). Malaysia Facebook statistics. The recipe for social marketing success. Retrieved on November 20, 2014 from <http://www.socialbakers.com/Facebook.statistics/malaysia>.

Social Bakers (2012). Twitter Statistics for Malaysia second quarter of 2016. Retrieved on May 13, 2016 from <http://www.socialbakers.com/Facebook.statistics/malaysia>.

Statistica (2014). Number of monthly active Facebook users worldwide from 3<sup>rd</sup> quarter 2008 to 3<sup>rd</sup> Quarter 2014 (in millions). Retrieved December 8, 2014 from [www.statistica.com](http://www.statistica.com).

Statistica (2016). Number of monthly active Twitter users worldwide from 1<sup>st</sup> quarter 2010 to 1<sup>st</sup> Quarter 2016 (in millions). Retrieved May 13, 2016 from [www.statistica.com](http://www.statistica.com).

Statistics Brain (2014). Facebook statistics. Retrieved December 8, 2014 from [www.statisticsbrain.com](http://www.statisticsbrain.com)

Steffan, M. (2013). Don't be too quick to 'Like' online political activity. Retrieved December 15, 2014 from [www.sharedjustice.org](http://www.sharedjustice.org).

Stieglitz, S., & Dang-Xuan, L. (2013). Social media and political communication: a social media analytics framework. *Social Network Analysis and Mining*, 3(4), 1277-1291. doi:10.1007/513278-012-0079-3.

Strandberg, K. (2009). Online campaigning: An opening for the outsiders? An analysis of Finnish parliamentary candidates' websites in the 2003 election campaign. *New Media and Society*, 11(5), 835-854. doi:10.1177/1461444809105355.

Strandberg, K. (2013). A social media revolution or just a case of history repeating itself? The use of social media in the 2011 Finnish parliamentary elections. *New Media and Society*, 15(8), 1329-1347. doi:10.1177/1461444812470612.

Strandberg, K. (2014). Mapping the Online Campaign Audience: An Analysis of Online Participation and Its Mobilizing Potential in the 2011 Finnish Parliamentary Campaign. *Journal of Information Technology & Politics*, 11(3), 276-290. doi:10.1080/19331681.2014.895475.

Stone, M. (1974). Cross validatory choice and assessment of statistical predictions. *Journal of the Royal Statistical Society. Series B (Methodology)* 36, 111-147. doi: 10.2307/2984809

Sun, W., Chou, C.-P., Stacy, A., Ma, H., Unger, J., & Gallaher, P. (2007) SAS and SPSS macros to calculate standardized Cronbach's alpha using upper bound of the phi coefficient for dichotomous items. *Behaviour Research Methods*, 39(1), 71-81. doi:10.3758/bf0319284.

- Stevens, J. P. (1984). Outliers and influential data points in regression analysis. *Psychological Bulletin*, 95(2), 334.
- Sutanto, S., & Suwana, F. (2014). The role of Twitter in the presidential election in Indonesia. Book of Proceedings for the International Conference on Communication 2014 (abstract).
- Tabachnick, B.G.. & Fidell, L.S. (2007). Using Multivariate Statistics (5<sup>th</sup> ed). Boston, Massachusetts: Allyn and Bacon/Pearson Education.
- Teng, L.S. (2012). *The phenomenon of blog campaigning: An exploratory study of weblogs during Malaysia's 12<sup>th</sup> General Election*. (Master's Thesis, University Tunku Abdul Rahman) Universiti Utara Malaysia Library.
- Teng, Y.C. (1995). "Malaysia online becomes first private net service". *Asia Computer Weekly* (July, 1995) 24-30.
- Tenscher, J., Mykkanen, J. & Moring, T. (2012). Modes of professional campaigning: A four country comparison in the European parliamentary elections, 2009. *The International Journal of Press/Politics*, 17(2), 145-168. doi:10.1177/1940161211433839.
- Ternes, A., Mittelstadt, A., & Towers, I. (2014). Using Facebook for political action? Social Networking Sites and political participation of young adults. *Arabian Journal of Business and Management Review*, 3(9), 2-16. doi:org/10.4172/2223-5833.100024.
- The World Fact Book (2007). Nigeria. *The World Fact Book*. Retrieved May 30, 2014 from <http://www.cia.gov/library/publications/theworldfactbook/geos/ni.html>.
- Theocharis, Y., & Quintelier, E. (2014). Stimulating citizenship or expanding entertainment? The effect of Facebook on adolescent participation. *New Media and Society*. 1-20. doi: 10/177/1461444814549006.
- Titus-Fannie, A.T., Akpan, C.S. & Tarnongo, M.O. (2013). An assessment of the utilization of social media mobilization of Nigerian youths in 2011 general elections. A case study of youths in Benue. *IOSR Journal of Humanities and Social Sciences* (IOSR-JHSS), 6(5), 32-44. Retrieved on May 13, 2014 from [www.iosrjournals.orgs](http://www.iosrjournals.orgs).
- Tolbert, C. J., & McNeal, R. S. (2003). Unraveling the effects of the Internet on political participation. *Political research quarterly*, 56(2), 175-185.

Towner, T. L. (2013). All political participation is socially networked? New media and the 2012 election. *Social Science Computer Review*, 31(5), 527–541. doi:10.1177/0894439313489656.

Treadwell, D. (2014). *Introducing communication research paths of inquiry* (2<sup>nd</sup> ed.) London: Sage.

Tumasjan, A., Sprenger, T.O., Sandner, P.G., & Welpe, I.M. (2010). Predicting elections with Twitter: What 140 characters reveal about political sentiments. Proceeding of the fourth International AAA1 conference on Weblogs and Social Media Predicting (pp.174-184).

Tumasjan, A., Sprenger, T.O., Sandner, P.G., & Welpe, I.M. (2011). Election forecast with Twitter: How 140 characters reflect the political landscape. *Social Science Computer Review*, 29(4), 402-418. doi: 10.1177/0894439310386557

Tworzecki, H., & Semetko, H. A. (2012). Media use and political engagement in three new democracies: Malaise versus mobilization in the Czech Republic, Hungary and Poland. *The International Journal of Press / Politics*, 17(4), 407-432. doi:10.1177/1940161212452450

Udende, P. (2011). Mass Media, political Awareness and Voting Behaviour in the Nigerian 2011 presidential Election. *African council for communication Education (ACCE)*, 20th-22nd September, 2011Pp, 493-501.

United Nations (2014). What do we mean by youth? Retrieved November 25, 2014 from [www.unesco.org/new/en/social-and-human-sciences](http://www.unesco.org/new/en/social-and-human-sciences).

Uzochukwu, C.E. & Ekwuga, U.P. (2014) New Media and Youths online civic engagement in Nigerian politics: Potentials and challenges. *European Scientific Journal*, 10(19).

Uzochukwu, C.E., Patricia, U.E & Ukweze, C.A. (2014). Harnessing social media tools in the fight against corruption in Nigeria: Challenges and prospects. *International Journal of Social Relevance Communication*, 2(11).

Vaccari, C., Valeriani, A., Barberá, P., Bonneau, R., Jost, J. T., Nagler, J., & Tucker, J. A. (2015). Political Expression and Action on Social Media: Exploring the Relationship between Lower-and Higher-Threshold Political Activities among Twitter Users in Italy. *Journal of Computer-Mediated Communication*, 20(2), 221-239.

- Valentino, N. A., Hutchings, V. L., & Williams, D. (2004). The impact of political advertising on knowledge, Internet information seeking, and candidate preference. *Journal of Communication*, 54(2), 337-354.
- Valenzuela, S. (2013). Unpacking the use of social media for protest behavior. The roles of information, opinion, expression and activism. *American Behavioral Scientist*, 57(7), 920-942. doi: 10.1177/0002764213479375.
- Valenzuela, S., Kim, Y., & Gil de Zuniga, H. (2012). Social networks that matter: Exploring the role of political discussion for online political participation. *International Journal of Public Opinion Research*, 24(2), 163-184. doi:10.1093/ijpor/edr037.
- Valeriani, A. & Vaccari, C. (2015). Accidental exposure to politics on social media as online participation equalizer in Germany, Italy and UK. *New Media and Society*. doi: 10.1177/1461444815616223
- Van Deths, J.W. (2014). Conceptualizing political participation. *Acta Politica*, 49, 337-348, doi:10.1057/ap.2014.7.
- Van Wyngarden, K. E. (2012). New Participation, New Perspectives? Young Adults' Participation Engagement Using Facebook. *Master's thesis*, Fort Springs. Colorado: Colorado State University.
- Varnali, K., & Gorgulu, V. (2014). A social influence perspective on expressive political participation on Twitter: The case of #Occupy Gezi. *Information Communication and Society* 18(1), 1-16. doi:org/10.1080/1369118x.2014,923480
- Vatandas, A. (2013). Turkish paper views role of social media in ongoing protest. *BBC Monitoring*. London, UK: BBC Worldwide Limited.
- Verardi, V., & Croux, C. (2008). Robust regression in Stata. Available at SSRN 1369144.
- Verba, S., Schlozman, K.L., & Brady, H.F. (1995). *Voice and equality: Civic Voluntarism in American Politics*. Cambridge, Harvard: University Press.
- Vesnic-Alujevic, L. (2012). Political participation on web 2.0 in Europe: A case study of Facebook. *Public Relations Review*, 38(3), 466-470.
- Vincente, M. R. & Novo, A. (2014). An empirical analysis of e-participation. The role of social networks and e-Government over citizens' online engagement.

*Government Information Quarterly*, 31(3), 379-387.  
doi:10.1016/j.gig.2012.12.006.

Vissers, S. & Stolle, D. (2014). Spill-Over effects between Facebook and on/Offline political participation? Evidence from a two-wave panel study. *Journal of Information and Technology Politics*, 11(3), 259-275.  
doi:10.1080/19331681.2014.888383.

Vitak, J., Zube, P., Smock, A., Carr, C.T., Ellison, N., & Lampe, C. (2011). It's complicated: Facebook Users' political participation in the 2008 election. *Cyber psychology, Behavior and Social Networking*, 14(3), 107-114.  
doi:10.1089/cyber.2009.0226.

Vrablikova, K. (2014). How context matters? Mobilization, political opportunity structures and non-electoral political participation in old and new democracies. *Sage*, 47 (2), 203 -229. doi:10.1177/0010414013488538.

Vreese, C. H. De, & Boomgaarden, H. (2006). News, political knowledge and participation : The differential effects of news media exposure on political knowledge and participation, *Acta Politica*, 41(4), 317–341.  
doi:10.1057/palgrave.ap.5500164.

Wajzer, M. (2015). Political participation: some problems of conceptualization. A working paper

Wald, K. D. & Calhoun-Brown (2011). *Religion and politics in the United States* (6<sup>th</sup>ed.). New York, US: Rowman and Littlefield.

Wang, S. (2007). Political use of the Internet, political attitudes and political participation. *Asian Journal of Communication*, 17(4), 37–41.  
doi:10.1080/01292980701636993.

Wang, Z., Tchernev, J. M., & Solloway, T. (2012). A dynamic longitudinal examination of social media use, needs, and gratifications among college students. *Computers in Human Behavior*, 28(5), 1829–1839.  
doi:10.1016/j.chb.2012.05.001.

Ward, J., & Vreese, C. De. (2011). Political consumerism, young citizens and the Internet. *Media, Culture and Society*, 33(3), 399-413.  
doi:10.1177/0163443710394900

Warnick, D.P. & Osherson, S.(1973). Comparative analysis in the social sciences In Warnick, D.P. & Osherson, S. (ed). *Comparative Research Methods*, Englewood Cliffs, New Jersey: Prentice Hall pp. 3-41.

- Warren, A.M., Sulaiman, A., & Jaafar, N. (2014). Understanding civic engagement behavior on Facebook from a social capital theory perspective. *Behavior and Information Technology*, 34(2), 1-13. Retrieved December 10, 2014 from www.ingentaconnect.com
- Weinberg, L. (2013). *Democracy and terrorism: Friend or foe?* USA: Routledge.
- Weiss, M.L. (2012). *Politics in cyberspace: New media in Malaysia*. Berlin, Germany: Fesmedia Asia. Friedrich Ebert Stiftung.
- Wellner, K., & Herstatt, C. (2014). Determinants of user innovator behaviour in the silver market. *International Journal of Innovation Management*, 18(06), 1440014.
- Wells, S. D., & Dudash, E. A. (2007). Wha'd'ya know? Examining young voters' political information and efficacy in the 2004 election. *American Behavioral Scientist*, 50(9), 1280-1289. doi:10.1177/0002764207300053.
- Wetzels, M., Odekerken-Schröder, G., & Oppen, V.C. (2009). Using partial least squares path modelling for assessing hierarchical construct models: Guideline and empirical illustration. *MIS Quarterly*, 33(1), pp 177-195.
- Whiteley, P. F. (2005). Citizenship education. *The political science perspective research report*. RR 631. National Foundation for Education Research.
- Whiteley, P.F. (2011). Is the party over? The decline of party activism and membership across the democratic world. *Party Politics*, 17(1), 21-44. doi:10.1177/1354068810365505.
- Whiteley, P., Clarke, H. D., Sanders, D., & Stewart, M. C. (2011). Britain says NO: Voting in the AV ballot referendum. *Parliamentary Affairs*, gsr043.
- Whiteley, P., Clarke, H. D., Sanders, D., & Stewart, M. (2015). Why Do Voters Lose Trust in Governments? Public Perceptions of Government Honesty and Trustworthiness in Britain 2000–2013. *The British Journal of Politics & International Relations*.
- Whiteley, P.F., Clarke, H.D., Sanders, D., & Steward, M. (2013). Why do voters lose trust in governments? Public perception of government honesty and trustworthiness from 1997 to 2013. Paper Presented at the Conference on Citizens and Politics in Britain Today: Still a Civic Culture? London School of Economics, 26<sup>th</sup> September, 2013.

- Whiting, A & Williams, D. (2013) "Why people use social media: A uses and gratification Approach", *Qualitative Market Research: An International Journal*, 16(4), 362-369. doi:org/10.1108/QMR-06-2013-0041
- Wilson, B. (2010). Using PLS to investigate interaction effects between higher order branding constructs. In *Handbook of partial least squares* (pp. 621-652). Springer Berlin Heidelberg.
- Wilson, B., & Henseler, J. (2007). Modeling reflective higher-order constructs using three approaches with PLS-SEM analysis: a Monte Carlo comparison. ANZMAC.
- Wilson, S., Leong, P., Nge, C., & Hong, N.M. (2011). Trust and credibility of urban youth on online news media. *Malaysian Journal of Communication*, 27(2), 97-120. Retrieved May 14, 2014 from www.ukm.my
- Wimmer, R.D. & Dominick, J.R. (2003). *Mass media research. An introduction* (7<sup>th</sup> ed). US: Thomson Wadsworth.
- Wojcieszak, M. (2012). Transnational connections symposium: Challenges and opportunities for political communication research. *International Journal of Communication*, 6(11), 255-256. doi: 1932-8036/2012FEA002.
- Wold, H. (1982). Soft modelling: the basic design and some extensions. In Joreskog, K. G., Wold, H., (Eds.), *Systems under indirect observation, causality structure, prediction. Part II*, 1-54, North-Holland. Amsterdam.
- Wold, H. (1985). Partial least squares in Kotz, S. & Johnson, N. L. (Eds) *Encyclopedia of Statistical Sciences*, 6, 581-591, New York, Wiley.
- Wong, K. K. K. (2013). Partial least squares structural equation modeling (PLS-SEM) techniques using SmartPLS. *Marketing Bulletin*, 24(1), 1-32.
- Xenos, M., Vromen, A., & Loader, B. D. (2014). The great equalizer? Patterns of social media use and youth political engagement in three advanced democracies, 17(2), 37–41. doi:10.1080/1369118X.2013.871318.
- Yamamoto, M., & Kushin, M. (2013). More harm than good? Online media use and political disaffection among college students in the 2008 election. *Journal of Computer-Mediated Communication*, 19(3), 430-445. doi:10.1111/jcc4.12046.
- Yamamoto, M., Kushin, M. J., & Dalisay, F. (2014). Social media and mobiles as political mobilization forces for young adults: Examining the moderating role of online political expression in political participation. *New Media & Society*. doi:10.1177/1461444813518390.

Young, J. M. (2012). *Political conversations on Facebook: An exploration of practices* (Master's Thesis, Georgetown University). Available on ProQuest Dissertation and Thesis Data base.

Yukon Child and Youth Advocate Office (2014). Definition of youth. Retrieved November 25, 2014 from [www.ycas.ca/index.pho](http://www.ycas.ca/index.pho).

Zhang, P., Li, N., & Sun, H. (2006, January). Affective quality and cognitive absorption: Extending technology acceptance research. In *System Sciences, 2006. HICSS'06. Proceedings of the 39th Annual Hawaii International Conference on* (Vol. 8, pp. 207a-207a). IEEE.

Zhao, Y. (2014). New media and democracy: Three competing visions from cyber-optimism and cyber-pessimism. *Political Science and Public Affairs*, 2(1), 2-4. doi: org/10.4172/2332-0761.1000114.

