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Abd Manap, Nurulfajar and Di Caterina, Gaetano and Ibrahim, M. M. and Soraghan, John (2011) *Co-operative surveillance cameras for high quality face acquisition in a real-time door monitoring system.* In: 3rd european workshop on visual information processing, 2011-07-04 - 2011-07-06, Paris.

http://strathprints.strath.ac.uk/

# Workshop Technical Program

| Monday July 4 | |
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| 08.45 | **Registration** |
| 09.15 | **Opening Session** |
| 09.30 | **Plenary: Pr. Raimondo Schettini - University of Milano Bicocca (Italy):  "Computational Color Constancy"** |
| | **Oral session 1 (O1-1):**  Color, Image and Video Processing |
| 10.35 | **Invited Paper: Recent Progress In Quantifying Colour Reproduction Quality** |
| 10.55 | 15 min coffee break |
| 11.10 | Improve Gamut Mapping Of Color Management System By Perceptual Quality-Oriented Analysis (ID-76) |
| 11.30 | CIE Uniform Chromaticity Scale Diagram For Measuring Performance Of OSA-UCS ΔEE And CIEDE00 Formulas (ID-3) |
| 11.50 | Artifact Reduction Of Compressed Images And Video Combining Adaptive Fuzzy Filtering And Directional Anisotropic Diffusion (ID-9) |
| 12.10 | Markov Random Fields Using Complex Line Process: An Application To Bayesian Image Restoration (ID-26) |
| 12.30 | Image Denoising Using Bilateral Filter In High Dimensional Patch-Space (ID-41) |
| 12.50 | Lunch break |
| | **Oral session 1 (O1-2):**  Image and Video Coding |
| 14.00 | **Invited Paper:** Improved Side Information Generation For Distributed Video Coding |
| 14.20 | Scalable Video Coding Using Motion-Compensated Temporal Filtering (ID-38) |
| 14.40 | An Adaptive Framework For H.264 Optimized Encoding (ID-62) |

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| 15.00 | Adaptive Quantization Based On Saliency Map At Frame Level Of H.264/AVC Rate Control Scheme (ID-70) |
| 15.20 | Mean Predictive Block Matching (MPBM) For Fast Block-Matching Motion Estimation (ID-53) |
| 15.40 | Low Complexity Truncated Gray-Coded Bit Plane Matching Based Multiple Candidate Motion Estimation (ID-55) |
| 16.00 | 15 min coffee break |
| 16.15-18.00 | **Poster Sessions** |

### Poster session 1 (P1-1):  Image Analysis and Processing

- Image Quality Metrics Based Multi-Focus Image Fusion (ID-84)
- Genetic Algorithm Clustering For Image Quantization (ID-11)
- A New Method For License Plate Validation Using The Orientations Algorithm (ID-86)
- Automatic Image Registration For Arm Radiographies (ID-81)

### Poster session 2 (P1-2):  3D and Multiview

- Co-Operative Surveillance Cameras For High Quality Face Acquisition In A Real-Time Door Monitoring System (ID-22)
- Fast HDR Image Generation From Multi-Exposed Multiple-View LDR Images (ID-58)
- Smoothness Of Viewpoint Transitions In Multiview Video Systems (ID-87)
- Perceptual Coding For 3D Reconstruction (ID-66)

### Poster session 3 (P1-3):  Visual Tracking and Video Analysis

- Adaptive Modulation Method For MGS Video Streaming (ID-61)
- Quality Video Measure Designed For Background Suppression With Low-Resolution Camera In The Context Of Medication Intake Monitoring (ID-65)
- Cardiac Motion Analysis Using Factorization Method (ID-15)
- Collaborative Cameras For Multi-Target Tracking Using Color Based Particle Filter And Object Contour (ID-59)
- Camshift Improvement On Multi-Hue Object And Multi-Object Tracking (ID-60)

## Tuesday July 5

| 09.00 | **Plenary: Pr. Alan C. Bovik - University of Texas (USA): "Perceiving Distortions in Visual Signals"** |
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| | **Oral session 1 (O2-1):** Image and Video Quality Assessment |
| 10.05 | **Invited Paper:** HVS-Metric-Based Performance Analysis Of Image Denoising Algorithms |
| 10.25 | An Effective and Efficient Visual Quality Index based on Local Edge Gradients (ID-23) |
| 10.45 | 15 min coffee break |
| 11.00 | No-Reference Blurred Image Quality Assessment  (ID-24) |
| 11.20 | An Efficient No-Reference Metric For Perceived Blur (ID-39) |
| 11.40 | Subjective Quality Of SVC-Coded Videos With Different Error-Patterns Concealed Using Spatial Scalability (ID-67) |
| 12.00 | Quality Estimation Based on Interest Points Through Hierarchical Saliency Maps (ID-72) |
| 12.20 | Lunch break |
| | **Oral session 2 (O2-2):** Multimedia Security |
| 14.00 | **Invited Paper:** Decryption Of Noisy Encrypted Images By Statistical Analysis |
| 14.20 | A Hybrid Watermarking Scheme For CCL-Applied Video Contents (ID-17) |
| 14.40 | Fuzzy-GA Hybridization in M-band Wavelets for Collusion Resilient Optimized SS Watermarking (ID-44) |
| 15.00 | A Visual Sensitivity Model Based Stereo Image Watermarking Scheme (ID-83) |
| 15.20 | DWT-Based Robust Video Fingerprinting (ID-35) |
| 15.40 | 20 min coffee break |
| 16.00-18.00 | **Student Poster Sessions** |

- Scale Invariance For The Recognition Of Finger Musical Gestures Performed In Space (IDS-19)
- CT And MRI Image Denoising Using Nonlinear Regression (IDS-18)
- Fingerprint Image Compression Based On Geometrical Wavelet (IDS-17)
- Multimodal Compression Of Image And Signal Data (IDS-12)

- Finger Gesture Control Of Sound (IDS-10)
- Image Authentication And Security Using Perceptual Hashing (IDS-9)
- Weld Pool Visual Tracking Using Active Contours Driven By Bayesian Classifiers (IDS-8)
- Classification Of Multispectral Palmprint Features By Level Fusion In Ridgelet Domain: A Robust Biometric Technique (IDS-7)
- A Non-Local Filter For Backgroung Suppression To Detect Point Objects (IDS-6)
- Automatic Lane Curve Detection For Driver's Assistance Systems Using Imm Algorithm (IDS-5)
- Evaluation Of Background Subtraction Algorithms For The Mobile Recognition Of Rare Dance Performances (IDS-4)
- Quantitative Evaluation Of Degradations Resulting From JPEG And JPEG 2000 Compression Of Neuro CT Images (IDS-3)

| 20.30 | **Social event (Boat excursion and dinner) and Best Student Paper awards** |

# Wednesday July 6

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| 09.30 | **Plenary: Pr. Bernadette Bouchon-Meunier - Université Paris VI (France) : "Similarity and prototype : two key issues in perceptive and subjective information"** |
| 10.30 | 15 min coffee break |

### Oral session 3 (O3-1):  Color, Image and Video Processing

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| 10.45 | A Dynamical And Plausible Computational Attention Model (ID-16) |
| 11.05 | A Semi-Automatic Relative Calibration Of A Fixed And PTZ Camera Pair For Master-Slave Control (ID-37) |
| 11.25 | Modelling Eye-movement Control via a Constrained Search Approach (ID-71) |
| 11.45-13.45 | **Lunch Break** |
| 13.45-15.30 | **Poster Sessions** |

### Poster session 1 (P3-1):  Biometrics

- Beyond Classical Biometrics: When Using Hidden Biometrics To Identify Individuals
- Block Ridgelet And SVM Based Fingerprint Matching  (ID-27)
- Fusion By Combination Scores In Multi-Biometric Systems (ID-28)
- New Biometric Approach Based On Geometrical Humain Brain Patterns Recognition: Some Preliminary Results (ID-34)
- Face Recognition Based On Gabor Features (ID-75)
- Classification of Gender and Face Based on Gradient Faces (ID-78)

### Poster session 2 (P3-2):  Retrieval and Mining

- Statistical Analysis Of The Quantization Stage Of Robust Perceptual Image Hashing (ID-14)
- Protuberance Selection Descriptor For Breast Cancer Diagnosis (ID-85)
- Orientation Histogram of SIFT Displacement for Recognizing Actions in Broadcast Videos (ID-25)
- A Novel Approach For Persian/Arabic Intelligent Word Recognition (ID-54)

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| 15.30 | **Closing Session** |