

Workshop Technical Program

Monday July 4

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 $\Delta E E$ 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)

- 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"**

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 Background 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

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

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)

15.30 **Closing Session**