

Tentative Technical Program

Tuesday October 25

09.00 Workshop Opening

Oral Session 1: Image and Video Coding

09.20 Adaptive Motion Estimation Search Window Size For HEVC Standard,
Hassan Kibeya, Fatma Belghith, Mohamed Ali Ben Ayed, Nouri Masmoudi

09.40 Automatic Lossy Compression of Noisy Images by Spiht or Jpeg2000 In Optimal Operation Point Neighborhood,
Vladimir Lukin, Alexander Zemlichenko, Sergey Abramov, Sergey Krivenko, Benoit Vozel, Kacem Chehdi

10.00 On The Selection Of Residual Formula For HDR Video Coding,
Ines Bouzidi, Azza Ouled Zaid, Chaker Larabi

10.20 Heuristic Inspired Search Method for Fast Wedgelet Pattern Decision in 3D-HEVC,
Sami Jaballah, Chaker Larabi, Jamel Belhadj Tahar

10.40 Coffee Break

Session 2

11.00 **Planary 1:**
Photowork: Improving Interaction with Digital Photo Libraries
Stefan Winkler

12.00 Lunch

Session 3: Biometrics

13.30 Multispectral Palmprint Recognition based on Local Binary Pattern Histogram Fourier Features and Gabor filter,
Wafa Al-Tarhouni, Larbi Boubchir, Noor Al-Maadeed, Mosa Elbendak, Ahmed Bouridane

13.50 Cloud-assisted Individual Adaptive L1-PCA Face Recognition using Wavelet-domain Compressed Images,
Federica Maritato, Ying Liu, Stefania Colonnese, Dimitris Pados

14.10 Reverse Facial Ageing Model For Youthful Appearance Restoration From Adult Face Images,
Elham Farazdagh, Elham Farazdaghi, Farnaz Majid Zadeh Heravi, Laurent Chatelain, Amine Nait-Ali

14.30 Local Descriptors And Tensor Local Preserving Projection In Face Recognition,
Mebarka Belahcene, Meriem Laid, Ammar Chouchane, Abdelmalik Ouamane, Salah Bourennane

14.50 Minimizing Separability: A Comparative Analysis of Illumination Compensation Techniques for Face Recognition,
Chollette Olisah, Peter Ogedebe

15.10 Coffee Break

Session 4: Hyperspectral imaging and Remote sensing

15.30 Rank Estimation of PARAFAC Reducing Both Signal-Dependent and Signal-Independent Noise in Hyperspectral Image for Target Detection,
Min Fu, Xuefeng Liu, Salah Bourennane, Caroline Fossati

15.50 Change Detection In Aerial Images Using A Kendall's Tau Distance Pattern Correlation,
Mohammad Saleh Javadi, Karlshamn, Mattias Dahl, Mats Pettersson

16.10 Hyperspectral Images Unmixing With Rare Signals,
Sylvain RAVEL, Caroline FOSSATI, Salah BOURENNANE

16.30 Unmixing Improvement based on Bootstrap for Hyperspectral Imagery,
Caroline FOSSATI, Salah BOURENNANE, Alexis CAILLY

Wednesday October 26

Session 5: Enhancement, Denoising and Image Quality Assessment

09.00 An Improved 3-Step Contactless Fingerprint Image Enhancement Approach For Minutiae Detection,
Xinwei Liu, Marius Pedersen, Christophe Charrier, Faouzi Alaya-Chekh, Patrick Bours

09.20 Multi-Scale Image Denoising While Preserving Edges In Sparse Domain,
Srimanta Mandal, Seema Kumari, Arnav Bhavsar, Anil Kumar Sao

09.40 A Comprehensive Performance Evaluation of Objective Quality Metrics for Contrast Enhancement Techniques,
Muhammad Ali Qureshi, Azeddine Beghdadi, Bilel Sdiri, Mohamed Deriche, Faouzi Alaya Cheikh

10.00 Multispectral Image Denoising In Wavelet Domain With Unsupervised Tensor Subspace-Based Method,
Abir Zidi, Klaus Spinnler, Julien Marot, Salah BOURENNANE

10.20 TBA

10.40 Coffee Break

Session 6

11.00 **Planary 2:**
Advances in through-wall radar imaging
Abdelhak M.Zoubir

12.00 Lunch

Session 7: Biologically Inspired Computer Vision (Special Session)

13.30 Visual System Inspired Algorithm For Contours, Corner And T-Junction Detection,
Antoni Buades, Rafael Grompone Von Gioi

- 13.50 Biologically-inspired characterization of sparseness in natural images,
Laurent Perrinet
- 14.10 Color filter array imitating the random nature of color arrangement in the human cone mosaic
Prakhar Amba, David Alleysson
- 14.30 An Illuminant-Independent Analysis Of Reflectance As Sensed By Humans, And Its Applicability To Computer Vision,
Alban Flachot, Phelma, J. Kevin O'Regan, Edoardo Provenzi
- 14.50 Categorization of microscopy images using a biologically inspired edge co-occurrences descriptor,
Lionel Fillatre, Michel Barlaud, Laurent Perrinet,

15.10 Coffee Break

Session 8: Detection and Recognition

- 15.30 On The Robustness Of Action Recognition Methods In Compressed And Pixel Domain,
Vignesh Srinivasan, Serhan Guel, Sebastian Bosse, Jan Timo Meyer, Thomas Schierl, Cornelius Hellge, Wojciech Samek
- 15.50 Offline Text Independent Writer Identification using Ensemble of Multi-Scale Local Ternary Pattern Histograms,
Faraz Khan, Muhammad Tahir, Fouad Khelifi, Ahmed Bouridane
- 16.10 Saliency Invariance With Divisive Normalization In Higher-Order Insect Neurons,
Bernard Evans
- 16.30 Visual Salient SIFT Keypoints Descriptors For Automatic Target Recognition,
Ayoub Karine, Abdelmalek Toumi, Ali Khenchaf, Mohamed El Hassouni

Thursday October 27

Session 9: Medical Imaging

- 09.00 Improving Skin Lesion Segmentation in Dermoscopic Images by Thin Artefacts Removal Methods,
Tomas Majtner
- 09.20 Hierarchical Classification Of HEP-2 Cell Images Using Class-Specific Features,
Vibha Gupta, Arnav Bhavsar, Anil Kumar Sao
- 09.40 Classification of Positron Emission Tomography Brain Images using first and second derivative features,
Imene Garali, Mouloud Adel, Salah Bourennane, Eric Guedj
- 10.00 Artifacts Removal In Nevi Medical Images Based On Moving Frame Domain Texture Analysis,
Stefania Colonnese, Mauro Biagi, Roberto Cusani, Gaetano Scarano

10.20 Coffee Break

Session 10: 3D, Stereo and Super Resolution

- 10.40 Improving Block-Matching Algorithm by Selecting Disparity Sets Minimizing Distortion for Stereoscopic Image Coding,
Aysha Kadaikar, Gabriel Dauphin, Anissa Mokraoui
- 11.00 Near real-time local Stereo Matching Algorithm based on Fast Guided Image Filtering,
Gwang-Soo Hong, Jong-Kweon Park, Byung-Gyu Kim
- 11.20 Monocular Reconstruction of Conformally Distorted Surfaces Using Boundary Points,
Jafar Hosseini, Helder Araujo
- 11.40 An Image Resampling Method Using Combined Directional Kernels,
Andrey Krylov, Andrey Nasonov, Konstantin Chesnakov

Closing

12.00 Best student paper awards

12.20 Lunch