

July 2, 2018

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14h00-15h00: Keynote: S. OSHER

15h00-16h00: Session: Mathematical imaging (1)

Digital image processing with quantum approaches	Nicolas Gillard, Etienne Belin and François Chapeau-Blondeau
The Nonlocal p-Laplacian Problem on Graphs: The Continuum Limit	Yosra Hafiene, Jalal Fadili and Abderrahim Elmoataz
Variable exponent nonlocal model with weaker norm in the fidelity term for image restoration	Fahd Karami, Driss Meskine and Khadija Sadik

16h00-16h50: Session: Poster (1)

Efficient Implementation of updating MCU using The Firmware on The Air	Ines Ben Hlima and Halim Kacem
Robust Non Parametric CFAR Detector in Compound Gaussian Clutter in The Presence of Thermal Noise and Interfering Targets	Nouh Guidoum, Faouzi Soltani, Khaled Zebiri and Amar Mezache
Mitigation of Target Tracking Errors and sUAS Response Using Multi Sensor Data Fusion	David Kondru and Mehmet Celenk
Multi-Pinhole Based X-Ray Fluorescence Computed Tomography: A Comparison with Single Pinhole Case	Tenta Sasaya, Naoki Sunaguchi, Seung-Jun Seo, Tsutomu Zeniya, Kazuyuki Hyodo, Jong-Ki Kim and Tetsuya Yuasa
Convolutional Feature Learning and CNN based HMM for Arabic Handwriting Recognition	Mustapha Amrouch, Mouhcine Rabi and Youssef Es-Saady
A Fuzzy Radial Basis Model for Arabic Documents Classification	Taher Zaki, Mohamed Salim El Bazzi, Driss Mammass and Abdel Ennaji
viAn Objective Evaluation of Edge Detection Methods based on Oriented Half Kernels	Baptiste Magnier
A novel approach to string instrument recognition	Anushka Banerjee, Alekhya Ghosh, Sarbani Palit and Miguel Angel Ferrer Ballester

16h50-18h10: Session: Mathematical imaging (2)

Digital Cultural Heritage imaging via osmosis filtering	Simone Parisotto, Luca Calatroni and Claudia Daffara
A nonlocal model for image restoration with Gamma noise	Fahd Karami, Driss Meskine and Omar Oubbih
Fourth Order Nonlinear Diffusion Filters for Multiplicative Noise Removal	Mahipal Jetta, Pradeep Nalluri, Preetham Dasari and Venkata Sai Hitesh Jonnalagadda
PDEs on Graphs for Image Reconstruction on Positron Emission Tomography	Abdelwahhab Boudjelal, Abderrahim Elmoataz, François Lozes and Zoubeida Messali

18h10-19h10 Session: Image and Video Processing (1)

Image denoising using collaborative patch-based and local methods	Vittoria Bruni and Domenico Vitulano
Number of Useful Components in Gaussian Mixture Models for Patch-based Image Denoising	Dai-Viet Tran, Sébastien Li-Thiao-Té, Marie Luong, Thuong Le-Tien and Françoise Dibos
Automatic Video Editing : Original Tracking Method applied to Basketball players in video sequences	Colin Le Nost, Florent Lefevre, Vincent Bombardier, Patrick Charpentier, Nicolas Krommenacker and Bertrand Petat

July 3, 2018

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08h30-09h30: Keynote: E. PROVENZI

09h30-10h30: Session: Multispectral and Color Imaging (1)

Towards highlight based illuminant estimation in multispectral images	Haris Ahmad Khan, Jean-Baptiste Thomas and Jon Yngve Hardeberg
Target Preserving Hyperspectral Image Compression using Weighted PCA and JPEG2000	Ali Can Karaca and Mehmet Kemal Güllü
Ink bleed-through removal of historical manuscripts based on hyperspectral imaging	Cristian Rocha, Hilda Deborah and Jon Yngve Hardeberg

10h30-11h10: Session: Poster (2)

Contrast Enhancement of Dental Lesions by Light Source Optimisation	Joni Hyttinen, Pauli Fält, Laure Fauch, Anni Riepponen, Arja Kullaa and Markku Hauta-Kasari
Colorimetric screening of the haze model limits	Jessica El Khoury, Jean-Baptiste Thomas and Alamin Mansouri
A novel approach to string instrument recognition	Anushka Banerjee, Alekhya Ghosh, Sarbani Palit and Miguel Angel Ferrer Ballester
Benchmarking saliency detection methods on multimodal image data	Hanan Anzid, Aissam Bekkari, Gaetan Le Goic, Alamin Mansouri and Driss Mammass
Image Segmentation and Object Extraction for Automatic Diatoms Classification	Emanuel Gutiérrez Lira, Fathallah Nouboud, Alain Chalifour and Yvon Voisin

Invariant Digital Image Watermarking Scheme In The Projected-Frequency Domain	Dhekra Essaidani and Hassene Seddik
An Adaptive Block-Based Histogram Packing for Improving the Compression Performance of JPEG-LS for Images with Sparse and Locally Sparse Histograms	Souha Jallouli, Sonia Zouari, Nouri Masmoudi and Atef Masmoudi
An Objective Evaluation of Edge Detection Methods based on Oriented Half Kernels	Baptiste Magnier
Geometrical local image descriptors for palmprint recognition	Bilal Attallah, Youssef Chahir and Amina Serir

11h10-12h10: *Session: Multispectral and Color Imaging (2) // Poster (2)*

Spectral Image Enhancement for the Visualization of Dental Lesions	Pauli Fält, Joni Hyttinen, Laure Fauch, Anni Riepponen, Arja Kullaa and Markku Hauta-Kasari
Visualization technique for change of edema condition by volume measurement using depth camera	Kenta Masui, Kaoru Kiyomitsu, Keiko Ogawa and Norimichi Tsumura
Melanin pigment identified from changes in individual facial images in 2003, 2010 and 2015 and its relationship with the use of UV protection	Ikumi Nomura, Yuri Tatsuzawa, Mihiro Uchida, Nobutoshi Ojima, Takeo Imai, Keiko Ogawa and Norimichi Tsumura

13h40-15h00: *Session: Computer Vision*

Analysis of Camera Pose Estimation Using 2D Scene Features for Augmented Reality Applications	Shabnam Meshkat Alsadat and Denis Laurendeau
Semantic Segmentation of Indoor-Scene RGB-D Images based on Iterative Contraction and Merging	Jia-Hao Syu, Shih-Hsuan Cho, Sheng-Jyh Wang and Li-Chun Wang
Salient Spin images: a descriptor for 3D object recognition	Jihad H'Roura, Michaël Roy, Alamin Mansouri, Driss Mammass, Patrick Juillion, Ali Bouzit and Patrice Méniel
Multi-view Iterative Random Projections On Big Data Clustering	Safa Bettoumi, Chiraz Jlassi and Najet Arous

15h20-16h40: *Session: Image and Video Processing (2)*

An image processing method based on features selection for crop plants and weeds discrimination using RGB images	Ali Ahmad, Rémy Guyonneau, Franck Mercier and Etienne Belin
Automatic Camera Selection in the Context of Basketball Game	Florent Lefevre, Vincent Bombardier, Patrick Charpentier, Nicolas Krommenacker and Bertrand Petat
Ordinal learning with vector-space based binary predicates and its application to Tahitian pearls' luster automatic assessment	Gaël Mondonneix, Sébastien Chabrier, Jean-Martial Mari and Alban Gabillon
Separability index-based feature selection and a two-tiers classifier for improving diagnostic performance in bearings	Viet Tra, Jong-Myon Kim and Bach-Phi Duong
Automatic Anonymization of Printed-Text Document Images	Angel Sanchez, Jose F. Velez, Javier Sanchez and A. Belen Moreno

July 4, 2018

08h30-09h30: *Keynote: J. WIECKERT*

09h30-10h30: *Session: ML, Deep Learning and applications (1)*

Editorial Image Retrieval using Handcrafted and CNN Features	Claudia Companioni-Brito, Sule Yildirim, Jon Yngve Hardeberg and Mohamed Elawady
Image Classification in the Frequency Domain with Neural Networks and Absolute Value DCT	Florian Franzen
Time Series Classification with the Shallow Learning Shepard Interpolation Neural Networks	Kaleb E. Smith and Phillip Williams

10h50-12h30: *Session: ML, Deep Learning and applications (2)*

Visual tracking using multi-layer CNN features based discriminant correlation filters with foreground mask	Tao Yang, Cindy Cappelle, Yassine Ruichek and Mohammed El Bagdouri
Region-Based Convolutional Networks for End-to-End Detection of Agricultural Mushrooms	Alexander Olpin, Deborah Stacey, Rozita Dara and Mohamed Kashkoush
Adaptive Batch Extraction for Hyperspectral Image Classification based on Convolutional Neural Network	Maissa Hamouda, Karim Saheb Etabaa and Med Salim Bouhlel
	Abdelouahid Ben Tamou, Abdesslam Benzinou, Kamal Nasreddine and

Underwater Live Fish Recognition By Deep Learning	Lahoucine Ballihi
Pipeline Fault Diagnosis Using Wavelet Entropy and Ensemble Deep Neural Technique	Bach-Phi Duong and Jong-Myon Kim

13h30-14h50: Session: Biometric, Affective and biomedical imaging

Detecting Morphed Face Images Using Facial Landmarks	Ulrich Scherhag, Dhanesh Budhrani, Marta Gomez-Barrero and Christoph Busch
Affective Computing: Using Covariance Descriptors for Facial Expression Recognition	Ashaylin Naidoo, Jules R. Tapamo and Rethabile Khulang
Designing efficient spoof detection scheme for face biometric	Maryam Eskandari and Omid Sharifi
Gradual Domain Adaptation for Segmenting Whole Slide Images Showing Pathological Variability	Michael Gadermayr, Dennis Eschweiler, Barbara Mara Klinkhammer, Peter Boor and Dorit Merhof
Convolutional Neural-Adaptive Networks for Melanoma Recognition	Ibtissam Bakkouri and Afdel Karim

15h10-16-30: Session: Image and Video Processing (3)

Human Dendritic Cells Segmentation based on K-means and Active Contour	Marwa Braiki, Abdesslam Benzinou, Kamal Nasreddine, Aymen Mouelhi, Salam Labidi and Nolwenn Hymery
Spatially Constrained Mixture Model with feature selection For Image and Video Segmentation	Ines Channoufi, Sami Bourouis, Nizar Bouguila and Kamel Hamrouni
Review: Automatic Image Annotation for Semantic Image Retrieval	Hasna Abioui, Ali Idarrou, Bouzit Ali and Driss Mammass
Graph-based Text Modeling: Considering Mathematical Semantic Linking to Improve The Indexation of Arabic Documents	Mohamed Salim El Bazzi, Driss Mammass, Taher Zaki and Abdel Ennaji
Visual Scene Reconstruction using a Bayesian Learning Framework	Sami Bourouis, Nizar Bouguila, Yexing Li and Muhammad Azam