



IPTA 2017



Conference Program

Seventh International Conference on
Image Processing Theory, Tools and
Applications

November 28 – December 1, 2017
Montréal, Canada



European Association
for Signal Processing



Le génie pour l'industrie





IPTA 2017

Montréal, Canada
November 28 – December 1

Event Locations

Workshops and Conference (from 9h – 17h, Nov 28 – Dec 1)

[École de technologie supérieure \(ÉTS\)](#)

1100 Notre-Dame Ouest, Montréal

Auditorium: A-1600

Welcoming Cocktail (starts at 7 pm on Nov, 28)

[McCord Museum](#)

690, Sherbrooke Street West, Montréal

Atrium

In downtown Montréal, about 15 mins walking distance from ÉTS.

Banquet (starts at 7 pm, on Nov. 30)

[Centre des sciences de Montréal](#)

2, rue de la Commune Ouest, Montréal

Hall Panoramique

In Old Montréal, about 15 mins walking distance from ÉTS.



IPTA 2017

Montréal, Canada
November 28 – December 1

Useful information

IPTA WiFi

SSID: [ÉTS-Campus](#)

then - login: [wifi-ipta](#)

- password: [Image2017](#)

Information for presentations:

- 1. Oral presentations:** Duration: 15 minutes for actual presentation and 3 minutes for questions-answers. Arrive at least 15 minutes before the beginning of your session to meet the session chairs and test your presentation.
- 2. Posters:** The poster stand will allow for a vertical poster (portrait orientation) with a maximum width = 36 inches by length = 58 in. Place your poster on your allocated space before 2 pm on the day of your poster session.



IPTA 2017

Montréal, Canada
November 28 – December 1

Committees

- **General Chairs:** Eric Granger (Canada)
Moncef Gabbouj (Finland)
Giorgio Fumera (Italy)
- **Program Chairs:** Ismail Ben Ayed (Canada)
Abdenour Hadid (Finland)
Umapada Pal (India)
- **Program Co-Chairs:** Christian Desrosiers (Canada)
Jean-Luc Dugelay (France)
William Puech (France)
- **Tutorials Chairs:** Xiaoyi Feng (China)
Rachid Jennane (France)
Marco Pedersoli (Canada)
- **Special Sessions Chairs:** Luiz Oliveira (Brazil)
Matthew Toews (Canada)
Friedhelm Schwenker (Germany)
- **Web Chair:** Patrick Cardinal (Canada)
- **Publication Chairs:** Miguel Bordallo (FIN), Marc-André Carbonneau (CA)
- **Publicity and Sponsorship Chairs:** Jose Dolz (Canada), Robert Sabourin (Canada)
- **Organization members (local):** Patrice Boucher, Rafooneh Bahri, Idrissa Coulibaly, Karthik Haritz, Hoel Kervadek, Madhu Kiran, Kuldeep Kumar, Francis Migneault, Fania Mokhayeri, Saypraseuth Mounsaveng, Le Nguyen-Meidine, Farhad Rahbarnia, Jérôme Rony, Lucas Shorten, Roghayeh Soleymani, Millie Zhang, Imtiaz Ziko.

Agenda at a glance

Time	Tuesday 28 Nov	Wednesday 29 Nov	Thursday 30 Nov	Friday 1 Dec
8:00	Registration opens	Registration opens	Registration opens	Registration opens
09:00 - 10:00	Tutorial 1: Oge Marques (Medical Image Analysis Using Deep Learning)	Keynote Talk 1 C.-C. Jay Kuo	Keynote Talk 3 Greg Mori	Keynote Talk 5 William M. Wells III
10:00 - 10:30	Coffee Break			
10:30 - 12:00	Tutorial 1 (continues)	Oral Session Deep Learning for Visual Recognition	Oral Session Video Analysis	Oral Session Medical Image Analysis
12:00 - 13:00	Lunch			
13:00 - 14:00	Tutorial 2: Jakob Verbeek (Unsupervised Deep Models)	Keynote Talk 2 Arnold Smeulders	Keynote Talk 4 Tinne Tuytelaars	Keynote Talk 6 Edmond Boyer
14:00 - 14:30	Coffee Break			
14:00 - 15:30	Tutorial 2 (continues from 14:30 to 16:00)	Poster Session 1	Poster Session 2	Poster Session 3
15:30 - 17:00		Oral Session Image Processing	Oral Session Biometrics and Document Analysis	Oral Session Visual Saliency
19:00 - 22:00	Welcoming Cocktail		Banquet	

Detailed Program

Wednesday, Nov. 29

Time	Event	
8:00 - 16:00	Registration	
8:45 - 9:00 Opening	Eric Granger, IPTA 2017 General Chair Ismail Ben Ayed, IPTA 2017 Program Chair	
09:00 - 10:00 Keynote Talk 1 Chair: Moncef Gabbouj (Tampere University of Technology, Finland)	Deep Learning Networks – Architectural Evolution and Theoretical Foundation. Speaker: C.-C. Jay Kuo , Professor of Electrical Engineering, University of Southern California.	
10:30 - 12:00 Oral Session (Deep Learning for Visual Recognition) Chairs: Xiaovi Feng, (Northwestern Polytechnical University, China) Xiaoyue Jiang, (Northwestern Polytechnical University, China)	1	ID# 15: Enlarging the Discriminability of Bag-of-Words Representations with Deep Convolutional Features. Daniel Manger and Dieter Willersinn, Fraunhofer IOSB
	2	ID# 157: Improving a Deep Learning based RGB-D Object Recognition Model by Ensemble Learning. Andreas Aakerberg, HSA Systems; Kamal Nasrollahi, Aalborg University, Denmark
	3	ID# 175: Deriving High-Level Scene Descriptions from Deep Scene CNN Features. Akram Bayat and Marc Pomplun, Umass Boston
	4	ID# 179: A Comparison of CNN-based Face Detectors for Real-Time Video Surveillance Applications. Le Thanh Nguyen-Meidine, Eric Granger, Madhu Kiran, ETS/LIVIA and Louis-Antoine Blais-Morin, Genetec Inc.
	5	ID# 12: Bayesian Optimization for Refining Object Proposals . Anthony Rhodes, Portland State University
13:00 -14:00 Keynote Talk 2 Chair: Giorgio Fumera (University of Cagliari, Italy)	What can be derived from an instance? Speaker: <i>Arnold Smeulders, Informatics Institute, University of Amsterdam</i>	

<p>14:00 - 15:30 Poster Session 1</p> <p>Chairs: Rachid Jennane, (University of Orleans, France)</p> <p>Ahmad Chaddad (McGill University, Canada)</p>	1	ID# 27: Visual Place Recognition with CNNs: From Global to Partial. Zhe Xin, Xiaoguang Cui, Jixiang Zhang, Yiping Yang and Yanqing Wang, CASIA
	2	ID# 139: Vehicle Re-identification by Fusing Multiple Deep Neural Networks. Chao Cui and Nong Sang, School of Automation, Huazhong University of Science and Technology
	3	ID# 9: Correspondence Space Reduction for Efficient Unsupervised Object Discovery. Sepehr Farhand, Ziyin Wang and Gavriil Tsechpenakis, Indiana University-Purdue University Indianapolis
	4	ID# 144: An Automatic Detection of Helmeted and Non-helmeted Motorcyclist with License Plate Extraction using Convolutional Neural Network. Jimit Mistry, Aashish Misraa, Meenu Agarwal, Ayushi Vyas, Vishal Chudasama and Kishor P. Upla, SVNIT Surat
	5	ID# 151: Comparison of CNN and MLP Classifiers for Algae Detection in Underwater Pipelines. Edgar Medina, Mariane Petraglia, José Gabriel Gomes and Antonio Petraglia, Federal University of Rio de Janeiro
	6	ID# 8: High Performance and Fast Object Detection in Road Environments. Min Sung Kang, and Young Chul Lim, DGIST
	7	ID# 54: A Closed-Form Expression for Thin Lens Image Irradiance. Robert Friedlander, Georgia Institute of Technology; Anthony Yezzi, Georgia Institute of Technology
	8	ID# 93: Lossless Light-Field Compression Using Reversible Colour Transformations. João Santos, Instituto de Telecomunicações; Pedro Assuncao, IT, Instituto Politécnico de Leiria; Luís Cruz, IT, Universidade de Coimbra; Luís Távora, Instituto Politécnico de Leiria; Rui Pinto, IT, Instituto Politécnico de Leiria; Sergio Faria, Instituto de Telecomunicações
	9	ID# 160: No-reference image quality assessment using Gabor-based smoothness and latent noise estimation. Vineet Kumar, IIT Jodhpur; Rajlaxmi Chouhan, Indian Institute of Technology, Jodhpur
	10	ID# 125: A multiresolution DCT-based blind blur quality measure. Fatma Kerouh, UdeS
	11	ID# 28: Image Matching Using GPT Correlation Associated with Simplified HOG Patterns. Shizhi Zhang, Tokyo Institute of Technology; Toru Wakahara, Hosei University; Yukihiko Yamashita, Tokyo Institute of Technology

	12	ID# 58: Illumination-robust multispectral demosaicing. Sofiane Mihoubi, Université Lille; Benjamin Mathon, CRISTAL; Jean Baptiste Thomas, Le2i; Olivier Losson, CRISTAL; Macaire Ludovic, Lagis, France
	13	ID# 63: A New Change Detector in Heterogeneous Remote Sensing Imagery. Redha Touati, université de Montréal; Max Mignotte, Université de Montreal; Mohamed Dahmane, Computer Research Institute of Montréal (CRIM)
	14	ID# 104: Background Modelling, Analysis and Implementation for Thermographic Images. Irida Shallari, Mid Sweden University; Qaiser Anwar, Mid Sweden University; Muhammad Imran, Mid Sweden University, Sweden; Mattias O'Nils, Mid Sweden University
	15	ID# 161: Multispectral Single-Sensor RGB-NIR Imaging: New Challenges and Opportunities. Xavier Soria Poma, Autonomous University of Barcelona; Angel Sappa, Computer Vision Center; Arash Akbarinia, Autonomous University of Barcelona
	16	ID# 4: Crowd-sourced Pictures Geo-localization Method Based on Street View Images. Liang Cheng, Nanjing University; Song Chen, Nanjing University; Manchun Li, Nanjing University
	17	ID# 5: Digital Spotlighting Parameter Evaluation for SAR Imaging. Eric Balster, University of Dayton
	18	ID# 10: Fading Affect Bias: Improving the Trade-off between Accuracy and Efficiency in Feature Clustering. Ziyin Wang, Indiana University-Purdue University Indianapolis; Gavriil Tsechpenakis, Indiana University-Purdue University Indianapolis
	19	ID# 35: Effective Waterline Detection for Unmanned Surface Vehicles in Inland Water. Ben James, WHUT; Wenqiang Zhan, WHUT
15:30 - 17:00 Oral Session (Image processing) Chairs: Marco Pedersoli, (ETS, Canada)	1	ID# 36: Calibration Method for Sparse Multi-view Cameras by Bridging with a Mobile Camera. Hidehiko Shishido, University of Tsukuba; Itaru Kitahara, University of Tsukuba
	2	ID# 37: Recursive 3D Scene Estimation with Multiple Camera Pairs. Torsten Engler, University of the Bundeswehr Munich; Hans-Joachim Wuensche, University of the Bundeswehr Munich
	3	ID# 70: Two-Stage Volumetric Texture Synthesis based on Structural Information. Adib Akl, Holy Spirit University of Kaslik; Charles Yaacoub, Holy Spirit University of Kaslik (USEK); Marc Donias, University of Bordeaux; Jean-Pierre Da Costa, University of Bordeaux; Christian Germain, University of Bordeaux

Moncef Gabbouj, (Tampere University of Technology, Finland)	4	ID# 91: Image Cryptography based on the Imitation of Gene Fusion and Horizontal Gene Transfer. Zoubir Hamici, Zaytoonah University of Jordan
	5	ID# 146: Single parameter post-processing method for image deblurring. Andrey Krylov, Lomonosov Moscow State University; Andrey Nasonov, Lomonosov Moscow State University; Yakov Pchelintsev, Lomonosov Moscow State University

Thursday, November 30

Time	Events	
8:00 - 16:00	Registration	
09:00 - 10:00 Keynote Talk 3 Chair: Eric Granger (ETS, Montreal, Canada)	<p>Deep Structured Models for Human Activity Recognition.</p> <p>Speaker: <i>Greg Mori, School of Computing Science, Simon Fraser University.</i></p>	
10:30 - 12:00 Oral Session (Video Analysis) Chairs: Giorgio Fumera, (University of Cagliari, Italy) Eric Granger, (ETS, Canada)	1	ID# 78: Dynamic hand gesture recognition based on 3D pattern assembled trajectories. Said Yacine Boulahia, IRISA; Eric Anquetil, IRISA; Franck Multon, INRIA; Richard Kulpa, INRIA
	2	ID# 142: Single Object Tracking using Offline Trained Deep Regression Networks. Ruxandra TAPU, Institute Mines-Telecom, Telecom SudParis / University Politehnica of Bucharest; Bogdan MOCANU, Institute Mines-Telecom, Telecom SudParis / University Politehnica of Bucharest; Titus Zaharia, Institute Mines-Telecom, Telecom SudParis
	3	ID# 154: Educational video classification by using a transcript to image transform and supervised learning. Housseem Chatbri, Marlon Oliveira, Kevin McGuinness, Suzanne Little, Dublin City University; Keisuke Kameyama, University of Tsukuba; Paul Kwan, Paul; Alistair Sutherland, Noel O'Connor, Dublin City University;
	4	ID# 181: Continuous Activity Understanding based on Accumulative Pose-Context Visual Patterns. Yan Zhang, Institute of Neural Information Processing, Ulm University; Georg Layher, Ulm University; Heiko Neumann, Ulm University
	5	ID# 182: Multi-modal Data Fusion For Pain Intensity Assessment and Classification. Patrick Thiam, Institute of Neural Information Processing; Friedhelm Schwenker, U. of Ulm Germany ANN Pattern Rec.
13:00 - 14:00 Keynote Talk 4 Chair: Marco Pedersoli (ETS, Montreal, Canada)	<p>Learning one task after the other.</p> <p>Speaker: <i>Tinne Tuytelaars, Department of Electrical Engineering, K.U. Leuven.</i></p>	
	1	ID# 29: Comparing Keyframe Summaries of Egocentric Videos: Closest-to-Centroid Baseline. Ludmila Kuncheva, Paria Yousefi, Bangor University; Jurandy Almeida, UNIFESP

<p>14:00 - 15:30</p> <p>Poster Session 2</p> <p>Chairs: Miguel Bordallo, (University of Oulu, Finland)</p> <p>Robert Sabourin, (ETS, Canada)</p>	2	ID# 24: Effective Keyframe Extraction from RGB and RGB-D video sequences. Niloufar Salehi Dastjerdi, Concordia University; Julien Valognes, Concordia University; Maria Amer, Concordia University
	3	ID# 95: A Computer Vision Method for Respiratory Monitoring in Intensive Care Environment Using RGB-D Cameras. Haythem Rehouma, Rita Noumeir, École de Technologie Supérieure; Philippe Jovet, Paediatric Intensive Care Unit, Children’s Hospital, Montréal; Wassim Bouachir, TÉLUQ; Sandrine Essouri, Paediatric Intensive Care Unit, Children’s Hospital, Montréal
	4	ID# 126: Real-time recognition of suicidal behavior using an RGB-D camera. Bo Li, École de Technologie Supérieure; Wassim Bouachir, TÉLUQ; Rafik Gouiaa, École de technologie supérieure; Rita Noumeir, École de Technologie Supérieure
	5	ID# 165: Weighted Hybrid Features for Person Re-Identification. Saba Mumtaz, Naima Mubariz, Shahzad Saleem, and Moazam Fraz, National University of Sciences and Technology
	6	ID# 33: Vehicle Boundary Improvement and Passing Vehicle Detection in Driver Assistance by Flow Distribution. Apurba Das, TCS; Ruppin K, TCS; Palak Dave, TCS; Sharfudheen Pv, TCS
	7	ID# 87: Detecting exercise-induced fatigue using thermal imaging and deep learning. Miguel Bordallo López, Center for Machine Vision and Signal Analysis; Carlos Roberto del Blanco, Universidad Politécnica de Madrid; Narciso Garcia, UPM
	8	ID# 174: Pain recognition with Camera Photoplethysmography. Viktor Kessler, Ulm University
	9	ID# 164: A New Latent Generalized Dirichlet Allocation Model for Image Classification. Koffi Ihou, Concordia University; Nizar Bouguila, Concordia University
	10	ID# 45: Completed Local Structure Patterns on Three Orthogonal Planes for Dynamic Texture Recognition. Thanh Tuan NGUYEN, Thanh Phuong NGUYEN, Frédéric BOUCHARA, University of Toulon
	11	ID# 16: Sample-based Regularization for Support Vector Machine Classification. Dat Tran, Tampere University of Technology; Muhammad Waris, Tampere University of Technology; Alexandros Iosifidis, Aarhus University; Moncef Gabbouj, TUT, Tampere, Finland

	12	ID# 156: Dynamic Ensemble Selection VS K-NN: why and when Dynamic Selection obtains higher classification performance?. Rafael M Cruz, Hiba Zakane, Robert Sabourin, École de Technologie Supérieure and George Cavalcanti, UFPE
	13	ID# 7: Footnote-based Document Image Classification using 1D Convolutional Neural Network and Histograms. Mohamed Mhiri, Sherif Abuelwafa, Christian Desrosiers, and Mohamed Cheriet, École de technologie supérieure
	14	ID# 60: Handwriting Gender Recognition System Based on the One-Class Support Vector Machines. Yasmine Guerbai, Youcef Chibani and Bilal Hadjadji, University of Science and Technology Houari Boumédiene (USTHB)
	15	ID# 69: Content-based image retrieval using color edge histogram. Mohammad Rezaei, Khaje Nasir, University of technology
	16	ID# 61: A novel synthetic dataset for research in overlapped fingerprint separation. Branka Stojanovic, Vlatacom Institute; Oge Marques, Florida Atlantic University; Aleksandar Neskovic, University of Belgrade
	17	ID# 178: Offline Handwritten Signature Verification - Literature Review. Luiz Gustavo, Robert Sabourin, École de technologie supérieure; Luis Eduardo Oliveira, UFPR
	18	ID# 150: Line Segmentation for Grayscale Text Images of Khmer Palm Leaf Manuscripts. Dona Valy, Université Catholique de Louvain; Michel Verleysen, Université Catholique de Louvain; Kimheng Sok, Institute of Technology of Cambodia
	19	ID# 170: Combining Left and Right Wrist Vein Images for Personal Verification. Cheniti Mohamed, Ferhat Abbass University; Zahid Akhtar, INRS-EMT, University of Quebec; Boukezzoula Naceur Eddine, Ferhat Abbass University; Tiago Falk, INRS-EMT
15:30 - 17:00 Oral Session (Biometrics and Document Analysis)	1	ID# 100: Two-Steps Perceptual Important Points Estimator in 8-connected curves from handwritten signature . Miguel Ferrer, Universidad de Las Palmas de Gran Canaria; Moises Diaz, Universidad del Atlántico Medio; Cristina Carmona-Duarte, Universidad de Las Palmas de Gran Canaria
	2	ID# 65: JPEG Compression Model in Copy-move Forgery Detection. Adam Novozámský and Michal Šorel, The Czech Academy of Sciences, Institute of Information Theory and Automation

Chairs: Christian Desrosiers, (ETS, Canada) Abdenour Hadid, (University of Oulu, Finland)	3	ID# 132: Deep Learning for automatic sale receipt understanding. Rizlène Raoui-Outach, AboutGoods Company / LISTIC; Cécile Million-Rousseau, AboutGoods Company; Alexandre Benoit, Listic-Université de Savoie; Patrick Lambert, Listic-Université de Savoie
	4	ID# 57: Pixelwise Classification for Music Document Layout Analysis. Jorge Calvo-Zaragoza, Gabriel Vigliensoni and Ichiro Fujinaga, McGill University
	5	ID# 74: Reversible Data Hiding in Encrypted Images based on Local Entropy Analysis. Pauline Puteaux, LIRMM Laboratory, CNRS, Université de Montpellier; William Puech, Université de Montpellier, France

Friday, December 1

Time	Events	
8:00 - 16:00	Registration	
09:00 - 10:00 Keynote Talk 5 Chair: Matt Toews (ETS, Montreal, Canada)	Active Mean Fields for Probabilistic Image Segmentation: Connections with Chan-Vese and Rudin-Osher-Fatemi Models. Speaker: <i>William M. Wells III, Department of Radiology, Harvard Medical School.</i>	
10:30 - 12:00 Oral Session (Medical Image Analysis) Chairs: Matt Toews, (ETS, Canada) Jose Dolz, (ETS, Canada)	1	ID# 77: Unsupervised Data Analysis for Virus Detection with a Surface Plasmon Resonance Sensor. Dominic Siedhoff, TU Dortmund University; Martin Strauch, RWTH Aachen University
	2	ID# 17: Automated Quantification of Retinal Vessel Morphometry in the UK Biobank Cohort. Roshan Welikala, Kingston University; Sarah Barman, Kingston University
	3	ID# 83: Majorization-Minimization Algorithms for Maximum Likelihood Estimation of Magnetic Resonance Images. QIANYI JIANG, Saïd MOUSSAOUI, Jérôme IDIER, Ecole Centrale Nantes; Guylaine COLLEWET, National Research Institute In Science and Technology For the environment and agriculture; Mai Xu, BUAA
	4	ID# 90: Coarse-to-Fine Texture Analysis for Inner Cell Mass Identification in Human Blastocyst Microscopic Images. Reza Moradi Rad, Parvaneh Saeedi, Simon Fraser University; Jason Au, Jon Havelock, Pacific Centre for Reproduction Medicine
	5	ID# 80: Convolutional Neural Networks for Histopathology Image Classification: Training vs. Using Pre-Trained Networks. Brady Kieffer, University of Waterloo; Morteza Babaei, Amirkabir University ; Shivam Kalra, KIMIA Lab, University of Waterloo; Hamid Tizhoosh, University of Waterloo, Canada
13:00 - 14:00 Keynote Talk 6 Chair: Abdenour Hadid (University of Oulu, Finland)	Multi-View Capture of Dynamic Scenes. Speaker: Edmond Boyer, INRIA, Rhône-Aples.	
	1	ID# 32: Correlation-based 2D Registration Method for Single Particle Cryo-EM Images. Nadezhda Anoshina, Andrey Krylov and Dmitry Sorokin, Lomonosov Moscow State University

<p>14:00 - 15:30</p> <p>Poster Session 3</p> <p>Chairs: William Puech, (University of Montpellier, France)</p> <p>Moulay Akhloufi, (University of Moncton, Canada)</p>	2	ID# 115: A deep learning approach for detecting and correcting highlights in endoscopic images. Antonio Rodriguez-Sanchez, University of Innsbruck; Daly Chea, University of Innsbruck; George Azzopardi, University of Groningen; Sebastian Stabinger, University of Innsbruck
	3	ID# 111: A joint Snake and Atlas-based segmentation of plantar foot thermal images. Asma Bougrine, Prisme; Rachid Harba, Prisme; Raphael Canals, France; Roger Ledee, Prisme; Meryem Jabloun, Prisme
	4	ID# 133: EEG Source Imaging Based on Spatial and Temporal Graph Structures. Jing Qin, Montana State University; Feng Liu, UT Arlington; Shouyi Wang, University of Texas at Arlington; Jay Rosenberger, University of Texas at Arlington
	5	ID# 149: Brain Tissue Classification of Alzheimer Disease using Partial Volume Possibilistic Modeling: Application to ADNI Phantom Images. Lilia Lazli, University of Quebec
	6	ID# 79: Distanceless Label Propagation: an Efficient Direct Connected Component Labeling Algorithm for GPUs. Laurent Cabaret, Centrale Supélec; Lionel Lacassagne, LIP6; Daniel Etiemble, LRI - Univ. Paris-Sud
	7	ID# 155: A new semi-supervised method for image co-segmentation. Rachida Es-salhi, Hassan II university; Imane Daoudi, Hassan II university; Hamid El Ouardi, Hassan II university
	8	ID# 31: Markov Random Fields for Pattern Extraction in Analog Wafer Test Data. Stefan Schrunner, Olivia Bluder, Anja Zernig, KAI - Kompetenzzentrum Automobil- und Industrieelektronik GmbH; Andre Kaestner, Infineon Technologies Austria AG; Roman Kern, KNOW-CENTER GmbH
	9	ID# 71: Global visual saliency: geometric and colorimetric saliency fusion and its applications for 3D colored meshes. Anass Nouri, University of Caen / France; Christophe Charrier, University of Caen Normandy, Caen, France; Olivier Lézoray, University of Caen
	10	ID# 188: HEVC stream saliency extraction: synergies between FIT and information theory principles. Marwa Ammar, IMT; Mihai Petru Mitrea, IMT-Telecom SudParis; Ismail Boujelbane, IMT-Telecom SudParis
	11	ID# 190: Towards Light-Compensated Saliency Prediction for Omnidirectional Images. Sourodeep Biswas, University of Poitiers; Sid Ahmed Fezza, INTTIC; Chaker Larabi, University of Poitiers

	12	ID# 19: Saliency Objectness Detection Based on Saliency Map and Bag of Visual Words. Mohammad Ahmadi, Allameh Dehkoda University
	13	ID# 117: Subaperture Image Segmentation for Lossless Compression. Ionut Schiopu, Moncef Gabbouj, Tampere University of Technology; Alexandros Iosifidis, Aarhus University; Bing Zeng, University of Electronic Science and Technology of China; Shuaicheng Liu, UESTC
	14	ID# 122: Multimodal three-dimensional vision for wildland fires detection and analysis. Moulay Akhloufi, Canada
	15	ID# 148: Texture Features Based on the Use of the Hough Transform and Income Inequality Metrics. Husam Elsaid, University of Manitoba; Gabriel Thomas, University of Manitoba
	16	ID# 75: Local Radon Descriptors for Image Search. Morteza Babaee, Amirkabir University ; Hamid Tizhoosh, University of Waterloo, Canada; Amin Khatami, Deakin University; M.E. Shiri, Amirkabir University
	17	ID# 106: A Novel Algorithm for Optimal Matching of Elastic Shapes with Landmark Constraints. Justin Strait, Ohio State University, USA; Sebastian Kurtek, Ohio State University, USA
	18	ID# 109: Genre Linked Automated Assessment and feedback of Photographs based on Visual Aesthetics. Pavan S, Samsung R&D Institute Bangalore; Dinesh Babu J, International Institute of Information Technology, Bangalore
	19	ID# 159: Weeds detection in UAV imagery using SLIC and the Hough transform. Mamadou Dian BAH, PRISME Laboratory, University of Orleans ; Adel Hafiane, France; Raphael Canals, France
15:30 - 17:00 Oral Session (Visual Saliency) Chairs: Jenny Benois-Pineau,	1	Saliency and visual attention for immersive media: concepts and applications. Patrick Le Callet, Universite de Nantes
	2	ID# 187: Extraction of saliency in images and video: problems, methods and applications. A survey. Jenny Benois-Pineau, University of Bordeaux/LABRI; Mihai Petru Mitrea, IMT-Telecom SudParis

(Université de Bordeaux, France) Mihai Mitra, (Telecom SudParis, France)	3	ID# 49: Image retrieval based on saliency for urban image contents. Kamel Guissous, LASTIG/IGN; Valérie Gouet-Brunet, LASTIG/IGN
	4	ID# 189: Multi-view visual saliency-based MRI classification for Alzheimer's disease diagnosis. Olfa Ben Ahmed, XLIM; Christine Fernandez-Maloigne, University of Poitiers, France

The Eighth International Conference on Image Processing Theory, Tools and Applications November 7-10, 2018, Xi'an, China



Call for Papers

General Chairs

Xiaoyi Feng (China)
Fabio Roli (Italy)

Program Chairs

Abdenour Hadid (Finland)
Jinye Peng (China)
Eric Granger (Canada)

Invited Speaker Chairs

Rachid Jennane (France)
Fadi Dornaika (Spain)

Tutorial Chairs

Hamid Krim (USA)
Hichem Maaref (France)

Special Session Chairs

Su Ruan (France)
Dongjian He (China)

Publication Chairs

Mourad Oussalah (Finland)
Huifang Li (China)
Xiaoyue Jiang (China)

Publicity/Sponsorship Chairs

Paulo Lobato Correia (Portugal)
Jing Yuan (China)
Jun Wu (China)

Web Chairs

Zhaoqiang Xia (China)
Min Qi (China)

Local organization members

Hongmei Xie
Guiqing He
Shuai Wan
Yan Feng
Shaohui Mei
Hangzai Luo
Yi Wang
Yongqian Du
Guifang Li
Jun Wang
Shaoxing Cui

The eighth International Conference on Image Processing Theory, Tools and Applications (IPTA 2018) will be held on **November 7-10, 2018**, in **Xi'an**, China. As one of the most famous ancient cities in the world, Xi'an is the starting point of the Silk Road and home to the Terracotta Army of Emperor Qin Shi Huang.

The conference is expected to provide researchers around the world the opportunity to interact and present their latest advanced research in the areas of image and video processing, and their applications. The topics of interest for IPTA 2018 include, but are not limited to:

- Image and video processing, coding and compression;
- Machine learning methods for image and video analysis;
- Pattern recognition: detection, clustering, indexing, classification and fusion;
- Computer vision: 2D and 3D perception, segmentation, shape representation, motion and tracking;
- Image formation, scanning, display and printing;
- Applications: action, event and gesture recognition, affective computing, biometrics, document analysis, graphics, medical image analysis, remote sensing, robotic vision, and video surveillance.

IMPORTANT DATES:

- Submission Deadline: **June 16th, 2018**
- Notification of Acceptance: August 31st, 2018
- Final Paper Submission: September 15th, 2018
- Early Registration Deadline: September 15th, 2018

PAPER SUBMISSION:

Authors are invited to submit their papers (6 pages max) through the conference online submission site: <https://cmt3.research.microsoft.com/IPTA2018>.

PUBLICATION:

A selection of the best papers from the conference will be invited to submit extended versions to a qualified international journal (to be confirmed). All accepted papers will be included in IEEE Xplore and will be indexed by EI.

