

International Conference on Image Processing Theory, Tools & Applications

The fourth edition of the International Conference on Image Processing Theory, Tools and Applications IPTA'14

aims at gathering challenging international researchers, innovators, educators, and practitioners in image processing theory and tools, for attending extensive educational high level materials, sharing their achievements, exchanging

their experiences and discussing future orientations. The conference will also offer an opportunity to fill the gap

between image processing researchers and people working in other application fields such as doctors, radiotherapists

and industrial parts. Closer link will be focused on between image processing algorithms and the way to implement

these algorithms for best performances. To address these challenges and explore these new opportunities, the conference aims to provide an excellent forum for all experts in these areas to meet and discuss various important

3: Virtual and augmented reality, visualization and

- Multimodal rendering (visual, haptic,...)

- Interaction based on tangible interface

- 3D interaction techniques and user assistance

- Natural User Interaction (NUI) in Virtual/AR

- Methods and tools for Evaluation of NUIs

- NUI in Handheld AR Environments

- Biological and medical imaging,

Visual information processing,

- Diagnosis optimization methods,

- Medical imaging systems technology,

- Classification tools for image-based diagnosis,

- Robotics applications,

Vision systems

- Content based image retrieval systems,

Image processing for biological systems,

4: Applications:

- Real time modelling and animating virtual environments

- 3D tracking based on hybrid sensors (vision, inertial,

- Systems and Software Architectures for Design NUIs

Biometric authentication, face and iris recognition,

- User experiences and Applications based on NUI

http://ipta14.ibisc.univ-evry.fr

October 14-17, 2014, Paris - France

Call For Papers

issues on image processing and applications. Four areas compose the conference topics:





General Chair:

Khalifa Djemal (France)

Honouree Chairs:

Hichem Maaref (France) Sos Agaian (USA) Hichem Frigui (USA)

Program Chairs:

William Puech (France) Samir Otmane (France) Rachid Jennane (France)

Program Co-chairs:

Gilles Gesquière (France) Adrian Bors (UK)

Invited Speakes & Tutorials Chairs:

Su Ruan (France) Hadid Abdennour (Finlande)

Special Sessions Chairs:

Christine Toumoulin (France) Mourad Ousallah (U K)

Organization members:

Florent Perciot (France)
Frédéric Davesne (France)
Rostom Kachouri (France)
Junior GOUBALAN (France)
Ryma DAOUDI (France)











For further information, the contact secretariat is at:

iptta@ibisc.univ-evry.fr

1: Image acquisition, coding and compression tools

- Image acquisition systems and information extraction, interaction:
- Algorithm-architecture adequacy in image processing Software architecture for VR and AR system
- Images processing tools
- Images coding and compression
- Geometrical Compression of 3D data,
- Watermarking

2: Image and video processing, computer vision:

- Image filtering and restoration,
- Image segmentation and detection,
- Image modelling,
- Estimation, representation and image analysis,
- Multivariate image processing
- Pattern recognition and shapes analysis,
- Tracking and dynamical analysis,
- Geometrical image description,
- Features extraction and description,
- Image interpretation and recognition,
- Statistical Learning methods for images classification,
- Complex systems for images analysis.
- Hyperspectral image analysis and its applications,

IMPORTANT DATES:

Regular paper submissions: May 5th 2014
Regular paper notification: June 5th 2014

Final Paper Submission and Registration: June 20th 2014

PAPER SUBMISSION: Papers describing general surveys, image processing fundamental theory, specific image processing applications, advanced prototypes, tools and methodologies are welcomed. Paper submission to IPTA conference should be done via: http://gsc11.cemif.univ-evry.fr/ipta14/myreview//SubmitAbstract.php

Accepted and Extended papers describing original contributions are encouraged in the conference topics mentioned above and are subject of selection for following international journals:

- International Journal of Signal and Imaging Systems Engineering (IJSISE),inderscience: http://www.inderscience.com/ijsise
- BioMedical Engineering and Research (IRBM), elsevier: http://www.sciencedirect.com/science/journal/19590318

SPECIAL SESSIONS:

- Special Session on Statistical Image Analysis for computer-aided detection and diagnosis on Medical and Biological Images (SIA-MBI)
- Special Session on Features Extraction methods for Medical Images Analysis (FEMIA)
- Special Session on Image Processing using Metaheuristics Optimization Algorithms (IP-MOA)

KEYNOTE SPEAKERS:

- Prof. Laurent D. Cohen, CEREMADE Laboratory, UMR CNRS 7534, University Paris Dauphine PSL*, France http://www.ceremade.dauphine.fr/~cohen
- Prof. Matti Pietikäinen, University of Oulu, Finland http://www.cse.oulu.fi/MattiPietikainen
- Prof. Yoichi Sato, Institute of Industrial Science, University of Tokyo, Japan http://www.hci.iis.u-tokyo.ac.jp/~ysato
- Prof. Antoine Manzanera, U2IS-RV / ENSTA-ParisTech, Palaiseau, France http://www.ensta-paristech.fr/~manzaner/index_eng.html
- Prof. Abbes Amira, University of the West of Scotland, United Kingdom http://www.uws.ac.uk/staff-profiles/computing/abbes-amira/

PUBLICATION:

Accepted papers will be published and indexed by IEEE Xplore, by Thomson Reuters Conference Proceedings Citation Index (ISI) and Scopus.