



Call For Papers

The third edition of the international Conference on Image Processing Theory, Tools and Applications IPTA'12 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 issues on image processing and applications. Four areas compose the conference topics:

1: Image acquisition, coding and compression tools

- Images acquisition systems and information extraction,
- Algorithm-architecture adequacy in image processing
- Images processing tools
- Images coding and compression
- Geometrical Compression of 3D data,
- Watermarking

2: Image processing and computer vision:

- Image filtering and restoration,
- Image segmentation and detection,
- Image modelling,
- Estimation, representation and image analysis,
- Multivariate image processing
- Shapes analysis and pattern recognition,
- 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.
- Pattern recognition,

3: Virtual and augmented reality, visualization and interaction:

- Software architecture for VR and AR system
- Real time modelling and animating virtual environments
- Multimodal rendering (visual, haptic,...)
- 3D interaction techniques and user assistance
- Interaction based on tangible interface
- 3D tracking based on hybrid sensors (vision, inertial, GPS,...)

4: Applications:

- Content based image retrieval systems,
- Biological and medical imaging,
- Image processing for biological systems,
- Visual information processing,
- Biometric authentication, face and iris recognition,
- Robotics applications,
- Diagnosis optimization methods,
- Medical imaging systems technology,
- Classification tools for image-based diagnosis,
- Vision systems

PAPER SUBMISSION

Papers describing general surveys, image processing fundamental theory, specific image processing applications, advanced prototypes, tools and methodologies are welcomed. Extended papers describing original contributions are encouraged in the conference topics mentioned above. Accepted papers, presented at the conference by one of the authors, are subject of selection for international journals.

Special Sessions Proposal:

Special Sessions notification:

Tutorials Proposal:

Tutorials notification:

Regular paper submissions:

Regular paper notification:

Final Paper Submission and Registration:

January	30 th	2012
February	20 th	2012
January	30 th	2012
February	20 th	2012
March	26 th	2012
May	14 th	2012
June	1 st	2012

SPECIAL SESSIONS

Special Sessions proposals should be submitted by January 30, 2012. Proposals for special sessions must include a topical title, rationale, session outline, contact information for the session chair(s), a list of authors who have agreed to present a paper in the session, and a tentative title and abstract of each paper.

TUTORIALS

Tutorials will be held on the first day of the conference. Proposal for tutorials must include a title, an outline of the tutorial and its motivation, a two-page CV of the presenter(s), and a short description of the material to be covered.

General Chairs:

Khalifa Djemal (France)
Mohamed Deriche (KSA)

Honoree Chairs:

Mustafa Aydin (Turkey)
Hichem Maaref (France)
Sos Ağaian (USA)

Program Chairs:

William Puech (France)
Osman N. Ucan (Turkey)

Program Co-chairs:

Rachid Jennane (France)
Samir Otmane (France)

Invited Speaker Chairs:

Maitine Bergounioux (France)
Hichem Frigui (USA)

Tutorial Chairs:

Sophie Robert (France)
Hadid Abdennour (Finlande)

Special Session Chairs:

Ammar Belattreche (UK)
Gilles Gesquière (France)

Organization Chairs:

Rifat Benveniste (Turkey)
Khalifa Djemal (France)

Organization members:

Zafer Utlu (Turkey)
Rostom Kachouri (France)
Zafer Aslan (Turkey)
Christophe Dominguez (France)
M. Kamil Tulga (Turkey)
Mouna Essabbah (France)
Metin Zontul (Turkey)

