

# IPTA 2010 International Conference on Image Processing Theory, Tools & Applications



<http://ipta10.ibisc.univ-evry.fr>



July 7-10, 2010, Paris – France

## Call For Papers

### General Chairs:

Khalifa Djemal (FR)

### Honoree Chairs:

Jean-Marc Chassery (FR)

Hichem Maaref (FR)

### Program Chairs:

Hichem Frigui (USA)

William Puech (FR)

### Program Co-chairs:

Jean Meunier (Canada)

Malik Malem (FR)

### Invited Speakers Chair:

Kurosh Madani (FR)

Khalid Saeed (PL)

### Tutorials Chair:

Mourad Oussalah (UK)

Su Ruan (FR)

### Special Sessions Chair:

Samir Otmane (FR)

Chinta Rambabu (Singapore)

### Organization Chairs:

Khalifa Djemal (FR)

Véronique Amarger (FR)

Samir Otmane (FR)

### Organization members:

Christophe Dominguez (FR)

Rostom Kachouri (FR)

Dominik Ramik (FR)

Mouna Essabbah (FR)



The second edition of the international Conference on Image Processing Theory, Tools and Applications IPTA'10 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 modeling,
- 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.

#### 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:

December	15 <sup>th</sup>	2009
January	3 <sup>rd</sup>	2010
February	15 <sup>th</sup>	2010
February	28 <sup>th</sup>	2010
March	1 <sup>st</sup>	2010
April	3 <sup>rd</sup>	2010
April	15 <sup>th</sup>	2010

### SPECIAL SESSIONS

Special Sessions proposals should be submitted by December 15, 2009. 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.