

# IPMU 2014: SPECIAL SESSION ON “SOFT COMPUTING IN IMAGE PROCESSING”

## CALL FOR PAPERS PROPOSAL:

You are kindly invited to participate in the proposal of special session on “Soft Computing in Image Processing” to be organized at the IPMU 2014 Conference: 15th International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems, to be held in Montpellier, France, July 15 - 19, 2014 (<http://www.ipmu2014.univ-montp2.fr/>).

Soft Computing techniques involve different methodologies, such as Fuzzy Logic, Fuzzy Set Theory, Rough Set Theory, Genetic Algorithms, Support Vector Machines and Neural Networks. The capability of these techniques to handle imprecision and incomplete information and to model very complex systems makes them a useful tool in many scientific research areas. Needless to say, image processing is one of these areas. This special session will focus mainly on the problems and applications that deal with image processing and analysis using Soft Computing techniques as an emerging research area.

The aim of this session is to provide an international forum for presentation of recent results and advances regarding soft computing techniques in image processing. It is an opportunity for researchers in this area to meet and to exchange ideas. It is also a way to establish and/or intensify international cooperation.

This special session wants to cover a wide range of domains, from more traditional ones such as image analysis at low, medium and high level, including pattern recognition to all the topics inherent to computer vision, all treated by means of Soft Computing techniques.

### **Topics:**

Topics include but are not limited to:

- Feature extraction, pattern recognition
- Edge detection, segmentation
- Mathematical morphology
- Image enhancement, filtering, noise removal, restoration,
- Image compression
- Image reconstruction
- Image similarity and image retrieval
- Satellite image processing
- Biometrics image processing
- Medical image processing
- Multidimensional data analysis and visualization
- Multi-modal image analysis

- Video processing and retrieval
- Scene understanding

The session seeks for original, unpublished, and high-quality research papers. The authors are invited to submit a proposal of paper including: title of the paper, prospective authors and a brief description. The deadline for submission of the proposal of papers is October 11, 2013. Please, notice that the session will be actually organized only if we receive a congruent number of expressions of interests. Papers submitted to a special session will undergo the normal reviewing process.

### **Important Dates**

- Submission tentative title, authors and brief abstract: October 11th, 2013
- Submission of special sessions: October 14th, 2013
- Submission of papers: December 9th, 2013
- Notification of acceptance: February 24th, 2014
- Submission camera-ready versions of accepted papers: March 31st, 2014
- Conference dates: July 15-19, 2014

### **Proposal of Papers:**

Please send an email with the above data to:

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