

Special Session “Soft Computing in Image Processing” at IPMU 2010

We are organizing a special session on "Soft Computing in Image Processing", in the framework of the forthcoming International Conference on Information Processing and Management of Uncertainty in Knowledge-based Systems, IPMU 2010 (Dortmund, Germany, 28 June - 2 July, 2010), <http://www.mathematik.uni-marburg.de/~ipmu2010/>

Our aim is to cover the application of fuzzy logic, neural computing, evolutionary computation, machine learning and probabilistic reasoning in the field of Image processing. Please find more details below (the aims, topics, dates,...).

It would be a pleasure for us to count on your participation in the special session. If you are interested on submitting a paper, please follow the next instructions:

- When you submit the paper through the conference web page, you must indicate that you want to submit it to the special session by selecting the session “Soft Computing in Image Processing”.
- In addition to the submission, please forward the paper to the organizers.
- If you have any question, please do not hesitate to contact the organizers.

Organizers:

- Belén Prados Suárez, belenps@decsai.ugr.es
- Jesús Chamorro Martínez, jesus@decsai.ugr.es
- Pedro Melo Pinto, pmelo@utad.pt
- Santiago Romani, santiago.romani@urv.cat

Thank you in advance; ;

With best regards,
The organizers.

Aim of the Session

The use of Soft Computing techniques to solve image processing and analysis problems is an every day more consolidated research line.

The aim of this special session is to bring together researchers which solve real-world problems related to video, 3D processing, scene understanding and Image processing using fuzzy logic, neural computing, evolutionary computation, machine learning and probabilistic reasoning.

It will make possible to highlight the recent successes in solving image problems by soft computing techniques, offering to the researchers a chance to exchange ideas, discuss recent advances and identify new promising research directions, applying this technology to solve real-world problems.

It will cover a range of domains, from the more traditional ones like features extraction, image analysis at low, medium and high level and pattern recognition, to the latest applications to video, motion and 3D. All these computer vision problems, viewed and solved by means of soft-computing techniques.

Topics

Topics of interest include but are not limited to:

- Video processing, motion detection, segmentation and analysis.
- Feature measures and extraction (segmentation, contour detection, ...)
- Image and Video enhancement, coding, compression and transmission.
- Image characterization, retrieval and scene understanding.
- Image formation, synthesis, registration and quality.
- 3D processing, analysis, rendering, physic-based vision.
- Applications: Medical imaging, Aerial imaging,

Submission requirements

Please, see the requirements of the IPMU Conference.

<http://www.mathematik.uni-marburg.de/~ipmu2010/submissions.html>

The format indications can be found at <http://www.springer.de/comp/lncs/authors.html>

When you submit the paper through the conference web page, you must indicate that you want to submit it to the special session by selecting the session “Soft Computing in Image Processing”.

All session papers will go through the normal reviewing process.

Publishing Information

All accepted papers will be published in the Proceedings of the Conference published by Springer's Lecture Notes in Computer Science and some invited papers will be proposed for a special issue of the Springer journal on Evolving Systems

Important Dates

Paper submission Deadline	17 January 2010
Notifications send to the authors	7 March 2010
Camera-ready copies due	4 April 2010
Conference	28 June - 2 July 2010

We are looking forward to receiving your contributions.