Call for Papers

Vision in general and images in particular play an important and essential role in human life. In the past they were, today they are, and in the future they will continue to be one of our most important information carriers ("one image contains more than a thousand words"). Fundamental scientific research and the continuing development of new and high-standard technology lead to a wide variety of applications, and all of them face us with important new challenges. In order to cope with these image processing challenges, several techniques have been introduced and developed. Among the different techniques that are currently in use, we also encounter soft computing techniques. Soft Computing is an emerging field that consists of complementary elements of fuzzy logic, neural computing, evolutionary computation, machine learning and probabilistic reasoning.

The special session on "Soft Computing in Image Processing: Recent Advances" aims at providing a collection of recent and state-of-the-art contributions on this topic, which perfectly fits in the scope of the FUZZ-IEEE 2011 Conference. Simultaneously, the fact that papers on this topic are presented in a specific session facilitates the establishment and intensification of communication and international cooperation between researchers that are active in this area.

Topics of interest include but are not limited to:

- Image quality improvement: filtering, noise removal, enhancement, restoration
- Image analysis: edge detection, segmentation, pattern recognition, object recognition, interpretation
- Image compression and image reconstruction
- Image similarity
- Computer vision
- Satellite image processing
- Medical image processing
- Mathematical morphology
- Wavelets

All accepted papers will be **published in the Proceedings** of the Conference. Selected high-quality papers will also be invited to submit an extended manuscript for a **special issue of the EURASIP Journal on Advances in Signal Processing**.

**Submission guidelines.**

- Please, see the "**Instructions for Authors**" on the FUZZ-IEEE 2011 website.
- **Important:** When you submit the paper through the conference web page, you must indicate that you want to submit it to this special session.
- Notify the session organisers (gerald.schaefer@ieee.org and mike.nachtegael@ugent.be) of your submission.
- All session papers will go through the normal reviewing process.

**Important dates**

- Submission of papers: January 15, 2011
- Notification of acceptance: March 31, 2011
- Submission of camera ready papers: April 30, 2011

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**About FUZZ-IEEE 2011**

The annual IEEE International Conference on Fuzzy Systems (FUZZ-IEEE) is one of the premier international conferences in the field of fuzzy sets and systems. The 2011 IEEE International Conference on Fuzzy Systems (FUZZ-IEEE 2011) will be held in Taipei, Taiwan. Taipei, located in northern Taiwan, is Taiwan’s capital as well as Taiwan’s epic center of government and commerce. Additionally, Taipei is also one of the most vibrant cities in Taiwan with a wealth of culture and tourist attractions. The conference will cover the whole range of research and applications in fuzzy systems and soft computing.

All information regarding the conference can be found at the conference website: [http://fuzzieee2011.nutn.edu.tw](http://fuzzieee2011.nutn.edu.tw)
**Contact information**

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