

Calls for Papers: Special Issue on Intelligent Image and Video Processing and Applications: The Role of Uncertainty

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International Journal of Intelligent Systems Technologies and Applications (IJISTA)

Call For papers:

Special Issue on: *Intelligent Image and Video Processing and Applications: The Role of Uncertainty*

Guest Editors:

Assistant Professor Manolis Wallace, University of Indianapolis, Athens Campus, Greece

Professor Stefanos Kollias, National Technical University of Athens, Greece.

Scope:

Image and video processing are focused on the problem of semantic segmentation and on related applications. The difference between now and before is that now emphasis is on the combination of raw processing techniques with intelligent expert systems towards the solution of the considered problems. As we move closer towards the combination and integration of the two distinct fields, it is becoming apparent that some issues related to their different nature will have to be tackled.

Specifically, expert systems and intelligent applications in general typically assume that some information about the world is available; this information, be it complete or not, is assumed to be known with precision and certainty. Based on this information, and utilising the available knowledge, an expert system will then provide a decision or an assessment of a situation. Image and video processing techniques, on the other hand, suffer from low quality of the raw media, noise, occlusions,

poor matching of observed objects to theoretical models due to unexpected deformations and random errors, all of which lead to uncertain, imprecise and possibly incorrect results. Obviously, expert systems are not designed to operate with the output of image and video processing modules as input, and image and video processing modules are not designed to provide input to expert systems.

This special issue seeks to explore developments in both the field of expert systems and the field of image and video processing that help bridge the gap between the two and make their combination possible, meaningful and robust. In this framework, we would like to invite contributions that not only fit the aims of IJISTA, but also address the issue of uncertainty in the output of image and video processing or in the input of expert systems. Papers can be the presentation of theoretical findings, applied research results, systems, case studies etc. Papers should be of a high quality, original, unpublished, and not submitted elsewhere.

Subject Coverage:

The purpose of this special issue on Intelligent Image and Video Processing and Applications: The Role of Uncertainty is to publish high quality research that contribute to the combination of raw image and video processing with intelligent expert systems. Specific topics include, but are not limited to:

- * Measures of uncertainty in image and video
- * Measures of uncertainty in the results of image and video processing
- * Alleviation or minimisation of uncertainty in image and video processing
- * Representation models for uncertain image and video processing results
- * Inferencing and/or reasoning with uncertain and/or imprecise inputs
- * Applications

Notes for Intending Authors:

All papers are refereed through a peer review process. A guide for authors, sample copies and other relevant information for submitting papers are available on the Papers Submission section under Author Guidelines [<https://www.inderscience.com/papers/about.php>]

To submit a paper, please go to Submission of Papers [<https://www.inderscience.com/papers>]

This is our preferred route for submitting papers; please use it if at all possible. However, if you experience any problems submitting papers in this way, an alternative route is suggested below.

Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere.

Important Dates:

Manuscript submission: *March 27, 2005*

Notification of review results: June 20, 2005

Revised manuscript submission: August 27, 2005

Final notification of acceptance: September 26, 2005

Final paper: October 16, 2005

Prospective authors are invited to optionally submit an abstract to guest editor Manolis Wallace [mailto:wallace@uindy.gr] by January 10, 2005, in order to best prepare for and expedite the review process.

Editors and Notes:

As an alternative to using the Submission of Papers site, you may send THREE copies of each manuscript (in hard copy) or one copy in the form of an MS Word file attached to an e-mail (details of both formats in Author Guidelines) to the following:

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<http://www.image.ece.ntua.gr/~wallace/>

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