

# “Intuitionistic Fuzzy Sets: Recent Advances”

June 9-12, 2009 — Palermo, Italy

International Workshop on Fuzzy Logic and Applications - WILF 2009

## CALL FOR PAPERS

### ❖ INVITATION

Since L. Zadeh introduced the concept of fuzzy sets, various notions of higher-order fuzzy sets have been proposed. Among them, intuitionistic fuzzy sets, introduced by K. Atanassov, have captured the attention of many researchers the last decades. This is mainly due to the fact that intuitionistic fuzzy sets are consistent with human behavior, by reflecting and modeling the hesitancy present in real-life situations.

This invited session aims at bringing together theoreticians and practitioners working in the field of higher-order fuzzy sets and especially intuitionistic fuzzy sets. Intuitionistic fuzzy sets theory provides a flexible, yet solid, mathematical framework to cope with imperfect or/and imprecise information often present in real-world applications. Recent publications show that the area of intuitionistic fuzzy sets theory is beginning to shift from theory to applications. Consequently, it is expected that the proposed special session will serve as a fertile ground for creative discussion to researchers working in this field.

This special session on "Intuitionistic Fuzzy Sets: Recent Advances" is organized as part of the "International Workshop on Fuzzy Logic and Applications - WILF 2009", to be held on June 9-12, 2009 in Palermo, Italy.

### ❖ TOPICS OF INTEREST

This special session will focus on recent theoretical and applied advances on intuitionistic fuzzy sets theory and their application in diverse domains. We welcome state-of-the-art contributions, related to, but not limited to, the following topics:

- ◆ INTUITIONISTIC FUZZY SETS THEORY
- ◆ INTUITIONISTIC FUZZY SIMILARITY/DISTANCE MEASURES
- ◆ INTUITIONISTIC FUZZY ENTROPY MEASURES
- ◆ INTUITIONISTIC FUZZY INCLUSION MEASURES
- ◆ INTUITIONISTIC FUZZY CORRELATION MEASURES
- ◆ INTUITIONISTIC FUZZY LOGIC SYSTEMS
- ◆ OPERATORS ON INTUITIONISTIC FUZZY SETS
- ◆ ...

and their application to

- ◆ IMAGE PROCESSING
- ◆ MEDICAL IMAGING
- ◆ SIGNAL PROCESSING
- ◆ PATTERN RECOGNITION
- ◆ DECISION MAKING
- ◆ INFORMATION RETRIEVAL
- ◆ CONTROL
- ◆ ROBOTICS
- ◆ ...

### ❖ PAPER SUBMISSION

Authors are invited to submit their work, presenting original theoretical or applied results in the field of intuitionistic fuzzy sets theory, by **September 15, 2008** in **PDF format**. Please note that the required paper length is eight pages in Springer format. Moreover, authors will have to submit editable LaTeX files at the end of the review process (see the Springer web site to find out about the files required). All contributions must be original, should not have been published elsewhere and should not be intended to be published elsewhere during the review period.

Manuscripts should be prepared in LaTeX according to the Springer LNCS/LNAI series format, following the guidelines for "Proceedings and Other Multi-Author Volumes" described at <http://www.springer.com>. Prospective authors should submit their manuscripts electronically to the session chairs at [ifs2009@mri.ee.auth.gr](mailto:ifs2009@mri.ee.auth.gr). Submission implies the willingness of at least one author per paper to register, attend the workshop, and present the paper.

### ❖ PROCEEDINGS

The conference proceedings will be published by Springer as part of the LNCS/LNAI series. All papers will be blind peer-reviewed by at least two independent reviewers on the basis of originality, technical contents, and relevance.

**Selected papers will be further peer-reviewed for publication in an edited book or a special issue of an international journal!**

### ❖ IMPORTANT DATES

Full-paper submission:	<b>September 15, 2008</b>
Acceptance notification:	<b>December 15, 2008</b>
Camera-ready-paper submission:	<b>January 31, 2009</b>
Workshop:	<b>June 9-12, 2009</b>

### ❖ SPECIAL SESSION ORGANIZERS

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