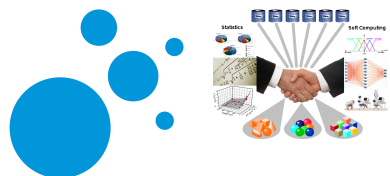


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European Centre for Soft Computing

COST IC0702



UNIVERSIDAD DE OVIEDO



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5th International Conference on Soft Methods in probability and statistics

September 28 – October 1, 2010
European Centre for Soft Computing
and University of Oviedo
Oviedo and Mieres (Asturias), Spain

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Proceedings

María Asunción Lubiano

Scope: Over the last thirty years there has been a growing interest in extending the theory of probability and statistics to allow for more flexible modeling of imprecision, uncertainty, vagueness and ignorance. Most such extensions result in a “softening” of the classical theory, permitting imprecision in probability judgments, and incorporating fuzzy constraints and events. Many approaches utilize concepts, tools and techniques developed in theories such as fuzzy set theory, possibility theory, imprecise probability theory and Dempster-Shafer theory.

The need for soft extensions of probability theory is becoming apparent in a wide range of application areas. For example, in data analysis and data mining it is becoming increasingly clear that integrating fuzzy sets and probability can lead to more robust and interpretable models that better capture all the information contained in the given data. Also, in science and engineering the need to analyze and model the true uncertainty associated with complex systems requires a more sophisticated representation of ignorance than that provided by uninformative Bayesian priors.

SMPS 2010 is the fifth of a series of biennial conferences, starting in 2002. It aims to provide a forum for researchers to present and discuss ideas, theories, and applications. The scope of the conference is to bring together experts representing all existing and novel soft methods in probability and statistics. In particular, we would welcome papers combining probability and statistics with fuzzy logic, applications of Dempster-Shafer theory, possibility theory, generalized theories of uncertainty, generalized random elements, generalized probabilities etc.

Proceedings

The conference proceedings will be published as an edited volume of the series “Advances in Intelligent and Soft Computing” (Springer-Verlag).



Topics

- Analysis of Censored Data
- Analysis of Fuzzy Data
- Random Sets
- Fuzzy Random Variables
- Fuzzy Regression Methods
- Triangular Norms and Copulas
- Imprecise Probabilities
- Dempster-Shafer Theory
- Robust Methods
- Clustering and Classification
- Graphical Models
- Machine Learning
- Heuristic Optimization
- Soft Computing and Statistics
- Statistical Software for Imprecise Data
- Applications in Biology, Economics etc.

Important Dates

Paper Submission and Registration Start:	Monday,	February 1,	2010
Paper Submission End:	Monday,	March 15,	2010
Reviews Due:	Sunday,	April 25,	2010
Acceptance Notification:	Monday,	May 3,	2010
Early Registration End:	Monday,	May 10,	2010
Final Paper Version Due:	Wednesday,	May 19,	2010

More Information

<http://www.cost-ic0702.org/smeps2010>