

Call for Papers

SIPTA Special Session on

"IMPRECISE PROBABILITIES"

to be held at the International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems (IPMU 2012)

<http://www.ipmu2012.unict.it/>

Catania, 9.07.2012 - 13.07.2012

Organizer:

E. Miranda (University of Oviedo, Spain, mirandaenrique@uniovi.es)

Aim of the Session

Imprecise probability is understood in a very wide sense. It is used as a generic term to cover all mathematical models which measure chance or uncertainty without sharp numerical probabilities. It includes both qualitative (comparative probability, partial preference orderings, ...) and quantitative modes (interval probabilities, belief functions, upper and lower previsions, ...). Imprecise probability models are needed in inference problems where the relevant information is scarce, vague or conflicting, and in decision problems where preferences may also be incomplete.

Scope of the session

The special session is open to contributions on all aspects of imprecise probability. Topics of interest include, but are not limited to:

- models of coherent imprecise assessments
- sets of probability measures, credal sets
- interval-valued probabilities
- non-additive set functions
- qualitative reasoning about uncertainty
- limit laws for imprecise probabilities
- physical models of imprecise probability
- philosophical foundations for imprecise probabilities
- elicitation techniques for imprecise probabilities
- robust statistics
- data mining with imprecise probabilities
- decision making with imprecise probabilities
- algorithms for manipulating imprecise probabilities
- credal classification
- applications.

Important Dates

- Deadline for Papers Submission (regularly through the conference website):
January 15, 2012
- Notification of Acceptance/Rejection: February 25, 2012.
- Deadline for Camera-ready papers: March 31, 2012.

Contact Details

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