

Call for papers and posters

ISIPTA '13

2-5 July 2013, Compiègne, France.

*Eighth International Symposium on Imprecise Probability:
Theories and Applications*



Important dates

Papers

Submission: 3 February

Notification: 7 April

Final version: 12 May

Posters with abstracts

Submission: 21 April

Notification: 19 May

The ISIPTA meetings are the primary international forum to discuss results on the theories and applications of imprecise probability.

Imprecise probability is a generic term for the many models and methods allowing us to measure chance or uncertainty without the restriction of sharp probabilities. These models include lower expectations or previsions, interval valued probabilities, sets of probability measures, sets of desirable gambles, belief functions, Choquet capacities, comparative probability orderings, possibility measures... Imprecise probability models are tailored for inference and decision problems where the relevant information is scarce, vague or conflicting, and where preferences may be incomplete.

Symposium format

The tradition of the ISIPTA meetings is to avoid parallel sessions. Each accepted paper is to be presented both (i) in a plenary session, where we ask for a short introduction and sketch of the context and relevance of the paper; and (ii) in a poster session, where ample time is given for explanation and discussion.

We also invite posters without a paper to be submitted. Such posters can present preliminary results or challenges. This is a chance for practitioners to discuss possible applications or for starting students to present their work.

Themes of the symposium

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

- coherent imprecise assessments;
- sets of probability measures;
- models of lower and upper expectations or previsions;
- random sets, belief functions;
- possibility measures;
- non-additive set functions;
- rough sets;
- qualitative uncertainty models;
- imprecision in utilities;
- reasoning under uncertainty;
- philosophical foundations for imprecision in uncertainty;
- psychological aspects of imprecise assessments;
- elicitation techniques;
- robust statistics;
- dealing with uncertain data;
- uncertainty in logic;
- argumentation systems;
- data mining and classification;
- game-theoretic probability;
- graphical models;
- imprecise probability in economy;
- algorithmic issues;
- decision making;
- applications in computer science, engineering, economics, finance, statistics, sociology, etc.

This ISIPTA, we specially encourage contributions describing challenging applications and/or focusing on the relation between imprecise probability and belief functions.

Extended versions of selected papers will appear in a special issue of the International Journal of Approximate Reasoning

Submission and information

Information regarding submission and the conference can be found at www.sipta.org/isipta13

All papers will be reviewed and accepted papers will be printed in the proceedings. For any question, contact isipta13@hds.utc.fr

Location

The conference will take place in Compiègne, France, a French imperial city 75km away from Paris.

Joint actions with ECSQARU:

(<http://www.projects.science.uu.nl/ecsqaru>)

- reduced joint fee including bus transfer to Utrecht;
- joint workshop on Sunday 7th;
- tutorials covering ECSQARU and ISIPTA topics.

More information on websites.

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