

# International Workshop on Interval/Probabilistic Uncertainty and Non-Classical Logics (UncLog'08)

Japan Advanced Institute of Science and Technology (JAIST)

**Ishikawa, Japan, March 25-28, 2008**

**CALL FOR PAPERS**

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- Milan Vlach (Charles University, Czech)
- Jian-Bo Yang (Univ. of Manchester, UK)

## Invited Speakers:

- G. Bezhanishvili (USA)
- T. H. Cao (Vietnam)
- M. Gehrke (Netherlands)
- J. Harding (USA)
- V. Kreinovich (USA)
- J. Lawry (UK)
- H. T. Nguyen (USA)
- J. B. Yang (UK)

## For Further Information, Please Contact At:

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## Objectives and Topics

**In view of the necessity for combining uncertainty analysis with logics in intelligent systems, we intend to provide a forum for research exchanges between these two fields in this international workshop. Its objectives are outlined as follows:**

- to bring together researchers working on uncertainty formalisms in information and knowledge systems;
- to attract researchers working in social sciences (economics, business, and environmental sciences) who are interested in applying uncertainty-related tools and techniques;
- to promote the cross-fertilization between the fundamental ideas connected with various approaches used in the study of non-classical logics;
- to bring together researchers from various fields on non-classical logics, uncertainty analysis and applications in order to foster collaboration and further research; and
- to present and discuss open research problems and challenges.

### The list of possible topics includes (but is not limited to):

- Interval computations: computational models, algorithms, and complexity
- Other models of uncertainty in knowledge representation, especially models which combine interval and probabilistic uncertainty, such as Dempster-Shafer theory, rough set theory
- Integration of pieces of information and knowledge known with interval and probabilistic uncertainty
- Decision making under interval/probabilistic uncertainty
- Combining interval and probabilistic uncertainty with logics
- Applications involving with interval/probabilistic uncertainty
- Algebraic logics
- Fuzzy and many-valued logics
- Lattices with operators
- Modal logics
- Substructural logics
- Topological semantics of modal logic

## Paper Submission

Potential authors are invited to submit their full papers by **September 15, 2007**. The submissions will be refereed by anonymous referees for scientific quality and for relevance for the workshop. Workshop proceedings will be published as an edited book by Springer-Verlag in the “**Advances in Soft Computing**” series, and be available at the Workshop. Papers should follow the LaTeX series format as described at <http://www.springer.com/>.

Submissions should not exceed 12 pages in the Springer-Verlag format. Please send your papers in PDF via email to Van Nam Huynh at [huynh@jaist.ac.jp](mailto:huynh@jaist.ac.jp).

After the Workshop, the authors of the best ranked papers will be invited to submit extended versions of their works for consideration in a special issue of the **International Journal of Approximate Reasoning (Elsevier)**.

## Important Dates

Deadline for paper submission:	<b>15 September 2007</b>
Notification of acceptance/rejection:	25 October 2007
Deadline for the final camera-ready:	20 November 2007
Workshop dates:	<b>25 - 28 March 2008</b>