

CALL FOR PAPERS



International Symposium on INTEGRATED UNCERTAINTY MANAGEMENT AND APPLICATIONS

**「With a Special Event Honoring Professors Michio Sugeno and
Hideo Tanaka's Retirement from Academic Duties」**

Japan Advanced Institute of Science and Technology (JAIST)

April 9-11, 2010, Ishikawa, Japan

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Europ. Center for Soft Computing, Spain)

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Distinguished Keynote Talks

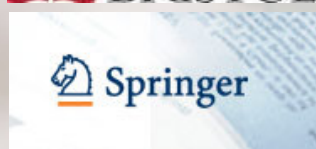
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Objectives and Topics

Solving practical problems often requires the integration of information and knowledge from many different sources and further takes uncertainty and impreciseness into account. This gives rise to the demand for methods and techniques of managing and integrating various types of uncertainty within a coherent framework, so as to ultimately improve the solution to any such complex problem in practice. This Symposium aims to provide a forum for exchanges of research results, ideas for and experience of application among researchers and practitioners. 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, management and environmental sciences) who are interested in applying uncertainty-related tools and techniques;
- to bring together researchers and practitioners in order to foster the collaboration on research and application involving uncertainty management; and
- to present and discuss open research problems and novel applications.

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

☐ Methodology

- Uncertainty formalisms: Bayesian probability, Dempster-Shafer theory, imprecise probability, random sets, rough sets, fuzzy sets and interval-based models
- Information fusion and knowledge integration in uncertain environments
- Decision making under various types of uncertainty
- Aggregation operators for decision making
- Copulas for dependence modelling
- Granular and soft computing

☐ Application

- Data mining and knowledge discovery
- Ranking and recommendation systems
- *Kansei* engineering and evaluation
- Engineering management
- Supply chain management
- Service science
- Economics and environmental sciences.

Paper Submission and Publication

The authors are invited to submit their full papers by **September 20, 2009**. The submissions will be peer-reviewed for originality and scientific quality. The proceedings will be published by Springer-Verlag in its series "**Advances in Intelligent and Soft Computing**", and be available at the Symposium. Papers should follow the LaTeX series format as described at <http://www.springer.com/series/4240/>. 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. After the Symposium, the authors of the best ranked papers will be invited to submit extended versions of their work for consideration in a special issue of the journal **Annals of Operations Research** (Springer).

Important Dates

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| Deadline for paper submission: | 20 September 2009 |
| Notification of acceptance/rejection: | 25 October 2009 |
| Deadline for the final camera-ready: | 20 November 2009 |
| Symposium dates: | 09 - 11 April 2010 |

<http://www.jaist.ac.jp/IUM2010/>