

CALL FOR PAPERS



IUKM 2023

The Tenth International Symposium on Integrated Uncertainty in Knowledge Modelling and Decision Making

November 2 – 4, 2023, Kanazawa, JAPAN

<http://www.jaist.ac.jp/IUKM/IUKM2023/>

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Scope and Topics

The IUKM Symposium aims to provide a forum for exchanges of research results, ideas for and experience of application among researchers and practitioners involved with all aspects of uncertainty management and application. Relevant topics for the 6th IUKM Symposium include, but are not limited to, the following:

□ Theory and Methodology

- Uncertainty formalisms: Bayesian probability, Dempster-Shafer theory, imprecise probability, random sets, rough sets, fuzzy sets and interval-based models.
- Modelling uncertainty and inconsistency in big data
- Learning and reasoning with uncertainty
- Uncertainty modelling in machine learning and deep learning
- Logics for uncertainty reasoning
- Information fusion and knowledge integration in uncertain environments
- Decision making under various types of uncertainty
- Aggregation operators
- Copulas for dependence modelling
- Granular and soft computing
- Computational intelligence

□ Application

- Data mining and knowledge discovery
- Multi-agent reinforcement learning
- Ontology engineering and Semantic Web
- Privacy preserving data analysis
- Intelligent data analysis and modelling
- Agents and argumentation
- Natural language processing
- Medical informatics and bioinformatics
- Ranking and recommendation systems
- Big data and cloud computing
- Social network analysis and mining
- Sensor fusion
- System identification and modelling
- Diagnosis and reliability
- Decision support systems
- *Kansei/Affective* engineering
- Engineering management
- Supply chain management
- Environmental management
- Service computing
- Economics and econometrics

Paper Submission and Publication

The authors are invited to submit their full papers by **May 15, 2023**. The proceedings of IUKM 2023 will be published in Springer's LNAI series. Authors are requested to prepare their papers in the [Springer LNAI/LNCS](#) format. Submissions should not exceed **12 pages** and be submitted electronically through the conference's CMT submission system.

Authors of selected accepted IUKM 2023 papers will be also invited to submit substantially extended and updated version of their work for possible inclusion in a special issue of [Annals of Operations Research](#).

Contact Information

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Important Dates

Deadline for paper submission:	15 May 2023
Notification of acceptance/rejection:	15 July 2023
Final camera-ready/Author registration:	25 August 2023
Conference:	02–04 November 2023