

Call For Papers

International Joint Conference on Rough Sets (IJCRS 2024)

CONFERENCE INFORMATION

Location: Halifax, Canada

Date: May 17-20, 2024

Website: <https://ijcrs24.cs.smu.ca>

Organized by the International Rough Set Society and the MSc program in Computing and Data Analytics (MCDA) at Saint Mary's University

MAIN TOPICS

We invite submissions of original and previously unpublished research on rough set theory, including but not limited to the following topics:

- *Core Rough Set Models And Methods:*
 - Covering/Neighborhood-based rough set models
 - Decision-theoretic rough set models
 - Dominance-based rough set models
 - Game-theoretic rough set models
 - Logic in rough set models
 - Partial rough set models
 - Rough-Bayesian models
 - Rough clustering
 - Rough computing
 - Rough mereology
 - Rough-set-based feature selection
 - Rule-based systems
 - Variable precision rough set models
- *Related Methods And Hybridization:*
 - Anomaly, outlier, and novelty detection
 - Decision support systems
 - Dempster-Shafer theory
 - Formal concept analysis
 - Fuzzy sets
 - Fuzzy rough sets and rough fuzzy sets

- Granular computing
- Intelligent agent models
- Interval computations
- Nature-inspired computation models
- Petri nets
- Rough sets in data science, artificial intelligence, and machine learning
- Three-way decision
- Three-way data analytics
- Topology and matroids
- Uncertain and approximate reasoning
- Uncertainty theory
- *Areas Of Applications:*
 - Astronomy and atmospheric sciences
 - Big data analytics
 - Bioinformatics
 - Business intelligence and business data analytics
 - Computer vision and image processing
 - Cybernetics and robotics
 - Financial markets
 - Interactive computing
 - Knowledge discovery
 - Knowledge engineering and representation
 - Medicine and health
 - Natural language processing
 - Retail and E-commerce
 - Risk monitoring
 - Semantic web
 - Smart cities
 - Telecommunications
 - Transportation
 - Web mining and text mining

KEYNOTE SPEAKERS

TBA

SPECIAL SESSIONS AND WORKSHOPS

We cordially invite you to submit the special session and workshop proposals. Proposals can be submitted by email. Special sessions are supposed to combine rough set methods with other approaches, while workshops can be devoted to the topics that are totally unrelated to rough sets but remain within a general scope of artificial intelligence, data mining and uncertainty modeling, from the perspectives of both theory and applications.

Special sessions will be scheduled on May 18-20, 2024, while workshops can be scheduled on May 17-20.

ROUGH SET SCHOOL AND TUTORIALS

We cordially invite you to submit the tutorial proposals by email. Any topics related to the theory and applications of artificial intelligence, data mining and uncertainty modeling are relevant. They do not need to be related to rough sets. Tutorials can be attractive for the IJCRS attendees who would like to broaden their interests beyond rough sets.

We will also organize a stream of lectures related to the theory and applications of rough set methods. This stream will be called Rough Set School. It will be designed to provide graduate students and industry practitioners with basic understanding of what the rough sets are and how rough set methods can be utilized.

Both Rough Set School lectures and general tutorials will be held on May 17, 2024.

PAPER SUBMISSION

Proceeding approval is pending.

Manuscripts are to be submitted in similar formats to previous proceedings at the following link <https://link.springer.com/conference/ijcrs>. Further details are under preparation and will be announced when available.

IMPORTANT DATES

- Deadline for proposal submission for special sessions, workshops, and tutorials: January 10, 2024
- Notification of acceptance for special sessions, workshops, and tutorials: January 24, 2024
- Deadline for paper submission: February 10, 2024
- Notification of acceptance for paper: April 10, 2024
- Deadline for camera-ready version of accepted paper: May 3, 2024

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