
CFP: A Special Session in Miwai 2013: Three-way Decisions and Probabilistic Rough Sets



December 10-11 2013 Krabi, Thailand

The 7th Multi-Disciplinary Workshop on Artificial Intelligence (MIWAI 2013) will be held in Krabi, Thailand, December 10-11, 2013.

Website: <http://khamreang.msu.ac.th/miwai13/index.php>.

You are welcome to submit a paper to a special session in MIWAI 2013 entitled “Three-way Decisions and Probabilistic Rough Sets”. The details of the special session are described as follows.

Special Session on **Three-way Decisions and Probabilistic Rough Sets**

Brief Description

Decision-theoretic rough set model is a typical probabilistic rough set model. The 7th Multi-Disciplinary Workshop on Artificial Intelligence (MIWAI 2013) keeps on inviting the submission of original and unpublished research papers. This special session aims to bring together researchers and practitioners in the field of probabilistic rough sets, decision-theoretic rough set model, three-way decisions and its applications. Three-way decisions method with probabilistic rough sets provide a meaningful semantics interpretation of the three regions in the rough set theory. A broad scope of research on the three-way decisions and probabilistic rough sets will contribute to a better understanding of the essentials of rough set theory and effective applications in decision theory. In recent work, the three-way decisions and probabilistic rough sets have been successfully used for decision analysis, decision making, cluster analysis, information filtering, Web-based support systems, attribute reduction, multi-criteria classification and multi-view decision models. The Special Session will encourage all research work related to the three-way decisions method and probabilistic rough sets theory and applications.

Scope and Topics

Topics of this session focus on the following fields (but not limited to):

- Theoretical foundations of probabilistic rough sets
- Theoretical foundations of decision-theoretic rough sets
- Theoretical foundations of three-way decisions
- Bayesian rough sets
- Game-theoretic Rough Sets
- Risk analysis in probabilistic rough sets
- Cost sensitive learning based on probabilistic rough sets
- Reduct theory and probabilistic rough sets
- Decision support systems (DSS) based on probabilistic rough sets
- Rule induction based on three-way decisions and probabilistic rough sets
- Data mining based on three-way decisions and probabilistic rough sets
- Probabilistic rough sets in incomplete information systems
- Decision-making based on three-way decisions and probabilistic rough sets
- Approximation reasoning based on probabilistic rough sets
- Applications of probabilistic rough set model
- Applications of three-way decisions
- Applications of three-way decisions with probabilistic rough set model

Important Dates

Submission of full papers	July 15, 2013
Notification of acceptance	September 1, 2013
Camera-ready paper	September 15, 2013
Workshop dates	December 10-11, 2013

Instructions for Authors

All submitted papers should be formatted according to the Springer's Lecture Notes in Artificial Intelligence instructions. The length of a paper should not exceed 12 pages.

Please refer to the call for papers page for more details

<http://khamreang.msu.ac.th/miwai13/index.php?url=cfp>.

You will submit your paper via EasyChair with whom we are arranging the submission website. If you do not already have one, you will be first asked to register for an EasyChair account on this submission page.

Please specify that the paper is for the **Three-way Decisions and Probabilistic Rough Sets**, and submit your paper in PDF format by **July 15**, 2013 via our electronic paper submission system.

For more information please contact: *Dr. Hong Yu* at yuhong@cqupt.edu.cn, and *Dr. Bing Zhou* at bxz003@shsu.edu.