

Call for Papers

The Tenth International Conference on Rough Sets, Fuzzy Sets, Data Mining, and Granular Computing (RSFDGrC 2005)

August 31st-September 3rd, 2005, Regina, Canada

Introduction

Rough set theory, proposed by Zdzislaw Pawlak in 1982, is a model of approximate reasoning. The main idea is based on the indiscernibility relation that describes indistinguishability of objects. Concepts are represented by lower and upper approximations. In applications, rough set methodology focuses on approximate representation of knowledge derivable from data. It leads to significant results in many areas including, for example, data mining, machine learning, finance, industry, multimedia, medicine, and most recently bioinformatics.

Conference History

RSFDGrC 2005 is a continuation of international conferences and workshops devoted to the subject of rough sets, held alternatively in Canada, China, Japan, Poland, Sweden, and the USA. RSFDGrC achieved the status of bi-annual international conference, starting from the year of 2003, in Chongqing, China.

Aim and Scope

RSFDGrC 2005 encompasses rough sets and fuzzy sets, granular computing, as well as knowledge discovery and data mining. We also welcome submissions addressing the connections of the main conference scopes to the following areas:

- Approximate reasoning and reasoning under uncertainty
- Computational intelligence and machine intelligence
- Decision support systems and expert systems
- Evolutionary computing and adaptive systems
- Human-computer interaction and multimedia
- Information retrieval and data warehouses
- Intelligent agent and web technologies
- Knowledge representation and visualization
- Layered learning and hierarchical learning
- Machine learning and statistical analysis
- Monitoring, security, and rescue techniques
- Multi-agent systems and distributed systems
- Multi-criteria and group decision-making
- Non-standard logics and relational systems
- Pattern recognition and image processing
- Petri nets and concurrency
- Signal processing and speech recognition
- Spatial reasoning and temporal reasoning

We plan special sessions on applications to bioinformatics, medicine, industry, and environmental problems. We welcome any other proposals for special sessions as well.

Invited Speakers

Keynote Speakers: Zdzislaw Pawlak (Poland), Lotfi A. Zadeh (USA),
Vladimir Vapnik (USA), Ronald R. Yager (USA)

Plenary Speakers: Salvatore Greco (Italy), Hung Son Nguyen (Poland),
Witold Pedrycz (Canada), Julio Valdes (Canada),
Dimitar Vakarelov (Bulgaria), Ning Zhong (Japan).

Chairs

Honorary Chairs: Zdzislaw Pawlak (Poland), Lotfi A. Zadeh (USA)

Conference Chairs: Wojciech Ziarko (Canada), Yiyu Yao (Canada), Xiaohua (Tony) Hu (USA)

Program Chair: Dominik Slezak (Canada)

Program Co-Chairs: Ivo Duentsch (Canada), James F. Peters (Canada), Guoyin Wang (China)

Workshop Chair: JingTao Yao (Canada)

Tutorial Chair: Marcin Szczuka (Poland)

Publicity Chair: Cory Butz (Canada)

Local Organizing Chair: Brien Maguire (Canada)

Conference Secretary: Lois Adams (Canada)

Advisory Board

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Tutorials, Workshops and Special Sessions

We welcome proposals for tutorials and workshops, as well as special sessions. The materials will be partially included into the main conference proceedings. The remaining materials will be attached to the proceedings on CDs. We refer to the conference website for detailed information about the workshops and special sessions.

On August 31, we plan also the lectures by representatives of the local research centres, as well as the additional student poster sessions.

Publication

All accepted papers will be published in the conference proceedings by Springer in the Lecture Notes in Computer Science / Lecture Notes in Artificial Intelligence (please refer to <http://www.springer.de/comp/lncs/fcp2004.html>).

A selected number of accepted papers will be expanded and additionally revised for inclusion in the journal Transactions on Rough Sets (Springer-Verlag, LNCS journal subline). Depending on the number of high quality papers, possibilities of preparing special issues in other journals are open.

Paper Submission

Both research and application papers are solicited. All submitted papers will be reviewed on the basis of technical quality, relevance, significance, and clarity. To submit a paper, please use the online paper submission system available at <http://rsfdgrc.cs.uregina.ca/cc/>.

The abstracts should be submitted until February 14, 2005. The papers should be submitted until February 28, 2005. Please send a PDF version of your paper. It should have no more than ten (10) pages in the [LNCS](#) style, including all figures, tables, and references. Please read the Information for Authors and use the style files for Proceedings and Other Multi-Author Volumes supplied by Springer-Verlag regarding [LNCS](#).

Registration

The early full registration will not exceed **\$600 CAD** (including the meals). The late full registration will equal to the early one + \$100 CAD. The student early/late registration will equal to 50% (\$300 CAD / \$350 CAD) of the full early/late registration.

The early registration is required to print the paper(s) in the Springer-Verlag proceedings. The late registration entitles to including the paper(s) in the CD materials, but not in the Springer-Verlag proceedings.

One full registration entitles to include up to two papers in the conference materials. One student registration entitles to include one paper in the conference materials. Every additional paper can be included on the extra cost of \$300 CAD.

Other Activities

Before the conference we can organize an optional trip to [Moose Jaw](#) – the city with a famous mineral spa, underground tunnels, and the Western Development Museum. Details will depend on a number of interested participants.

Important Dates

Abstract submission deadline:	February 14, 2005
Paper submission deadline:	March 7, 2005
Acceptance notices:	April 3, 2005
Camera-ready papers, Copyright forms and early registration	May 23, 2005
Late registration:	August 1, 2005
Tutorials / workshops:	August 31, 2005
Conference:	September 1-3, 2005