



IJCRS 2016

International Joint Conference on Rough Sets

October 7-9, 2016

Universidad Católica del Norte, Antofagasta, Chile



## Call for Tutorials, Special Sessions & Workshops

**Scope.** IJCRS is the prime international conference sponsored by the International Rough Set Society ([IRSS](#)). The main objective of IJCRS 2016 is to gather together:

- People working in various fields related to theoretical foundations and practical applications of **rough sets**
- People working in **other fields**, wishing to discuss their results and experiences with rough set community
- People dealing with **real-world problems**, wishing to share their specifics and look for new inspirations

**Proposals.** Please specify in your proposals why you selected one of the following modes:

**(T) Tutorials** should introduce established rough sets concepts to newcomers or provide surveys on well-known areas of rough sets. Thus, the quality of a tutorial very much depends on the tuition form.

**(S) Special Sessions** should focus on important areas of rough sets that currently arise so much interest that an accentuated presentation of the topic is justified (expected 10+ submissions and possibly attracting a reasonable number of participants). In special sessions, the completed (at least to a certain level) research is presented.

**(W) Workshops** can have two characteristics. 1. *Application workshops* address practitioners, e.g., from industry, who are seeking information about rough sets and other IJCRS topics (see below for examples of possible topics). Such workshops incorporate extensive exercises (e.g., case based studies) and an intensive exchange of ideas. 2. *Theory workshops* are intended to foster a thorough and in-depth discussion on an emerging new paradigm in rough sets. Alternatively, they could also deal with a review of an established field with the goal to take it to the next level.

**Topics** of tutorials, special sessions and workshops may include but are not limited to:

### Core Rough Set Models & Methods

- |  |                                     |                         |   |
|--|-------------------------------------|-------------------------|---|
| - Covering/Neighborhood-Based Rough Set Models | - Dominance-Based Rough Set Methods | - Rough-Bayesian Models | - Rough-Set-Based Feature Selection         |
| - Decision-Theoretic Rough Set Methods         | - Game-Theoretic Rough Set Methods  | - Rough Clustering      | - Variable Consistency/Precision Rough Sets |
|  |                                     | - Rough Computing       |   |
|  |                                     | - Rough Mereology       |   |

### Related Methods & Hybridizations

- |                           |                            |                          |                       |
|---------------------------|----------------------------|--------------------------|-----------------------|
| - Artificial Intelligence | - Fuzzy Sets               | - Machine Learning       | - Pattern Recognition |
| - Computing With Words    | - Information Granulation  | - Nature-Inspired Models | - Petri Nets          |
| - Decision Aiding         | - Intelligent Agents       | - Near Sets              | - Rule-Based Systems  |
| - Formal Concept Analysis | - Interactive Computations | - Neural Networks        | - Uncertain Reasoning |

### Areas of Applications

- |                         |                          |                          |                       |
|-------------------------|--------------------------|--------------------------|-----------------------|
| - Astronomy             | - Cybernetics & Robotics | - Medicine & Health      | - Retail & E-Commerce |
| - Big Data Processing   | - Financial Markets      | - Modeling & Simulations | - Risk Management     |
| - Bioinformatics        | - Knowledge Management   | - NLP Applications       | - Smart Cities        |
| - Business Intelligence | - Location & Logistics   | - Natural Resources      | - Web & Text Mining   |

<b>Dates.</b> T/S/W proposal submissions	<b>15.04.2016</b>	T/S/W paper submissions	<b>15.05.2016</b>
T/S/W proposal acceptance notices	<b>15.04.2016</b>	T/S/W paper acceptance notices	<b>15.06.2016</b>
		T/S/W camera-ready papers due	<b>01.07.2016</b>

**Publications.** Accepted and registered 10-page long papers **presented** at IJCRS 2016 will be included into the conference proceedings published in Springer's [Lecture Notes in Computer Science](#) and indexed in [Web of Science](#).

**Invited. Keynotes:** [Pablo Estévez](#), [Marco Orellana](#), [Tony Hu](#), [Ernestina Menasalvas](#), [Pawan Lingras](#) & [Qinghua Hu](#). **Lectures & Panels:** We also plan some plenary talks and round table discussions held by distinguished [IRSS Fellows](#).

**Venue.** The conference will be held in Antofagasta - a regional capital located by the Pacific Ocean, 1,364 km north of Santiago de Chile. Antofagasta is the world-class leader in astronomy and mining industry. In particular, we plan to visit one of the largest observatories at the Southern Hemisphere and one of the largest open pit mines in the world.

**Extra Social Event.** Optional trip to [San Pedro de Atacama](#) (one of top touristic destinations in Chile), October 9-10.

**Partnering Events. Before IJCRS:** 18th Latin-Iberoamerican Conference on Operations Research ([CLAIO](#)), October 2-6, Santiago de Chile. **After IJCRS:** The workshop on Soft Computing in Data Science, October 11, Santiago de Chile.

**Chairs. Honorary:** Andrzej Skowron & Bo Zhang. **Conference:** Claudio Meneses & Dominik Ślęzak. **SC:** Duoqian Miao, Georg Peters, Richard Weber & Yiyu Yao. **PC:** Víctor Flores, Fernando Gomide, Andrzej Janusz & Guoyin Wang. **Publicity:** Jerzy Błaszczyński, Yasuo Kudo, Jaime Pavlich & Juan Velasquez. **Organizing:** Ivan Jirón & Diego Urrutia.

Further information at <http://ijcrs2016.ucn.cl>