

Call for Papers
24th International Symposium on
Methodologies for Intelligent Systems
ISMIS 2018

Special Session
– Granular and Soft Clustering for Data Science –

October 29 - 31, 2018, St. Raphael Resort, Limassol, Cyprus

ISMIS is an established and prestigious conference for exchanging the latest research results in building intelligent systems. Held twice every three years, the conference provides a medium for exchanging scientific research and technological achievements accomplished by the international community.

The scope of ISMIS is intended to represent a wide range of topics on applying Artificial Intelligence techniques to areas as diverse as decision support, automated deduction, reasoning, knowledge based systems, machine learning, computer vision, robotics, planning, databases, information retrieval, etc. The focus is on research in intelligent systems. The conference addresses issues involving solutions to problems that are complex to be solved through conventional approaches and that require the simulation of intelligent thought processes, heuristics and applications of knowledge. The integration of these multiple approaches in solving complex problems is of particular importance. ISMIS provides a forum and a means for exchanging information for those interested purely in theory, those interested primarily in implementation, and those interested in specific research and industrial applications.

Granular and Soft Clustering for Data Science

Data is considered as the new oil for virtually any company around the world. Hence, data science has established itself as a multi-disciplinary field that holistically addresses challenges in managing data. It subsumes, e.g., database systems as well as data analytics. Within data analytics, unsupervised approaches, in particular, clustering, play a crucial role to discover new insights in the data and turn them into information. Most real-life applications are characterized by overlapping data structures. These can be addressed by soft computing approaches such as fuzzy, rough or granular clustering. The objective of the session is to study the state of the art of soft clustering in data science.

Topics. The special session invites researchers and scientists to submit their high-quality, original works in granular and soft clustering for data science. The topics include, but not limited to:

- Fuzzy clustering, rough clustering, granular clustering
- Three-way decision clustering
- Hybrid clustering and meta clustering
- Dynamic clustering
- Data stream clustering
- Applications of clustering

Paper Submission. Authors are invited to submit their manuscripts (maximum 10 pages) electronically in Springer's LNCS/LNAI style. For detailed instructions see the conference homepage (<http://cyprusconferences.org/ismis2018/>); any necessary information concerning typesetting can be obtained directly from Springer's webpage. All submissions will be subject to review by the ISMIS 2018 program committee in consultation with the special session organizers.

Publication. The accepted papers will be published in ISMIS 2018 proceedings in Springer's LNAI series.

Important Dates.

• Paper submission: May 10, 2018	• Camera-Ready: July 31, 2018
• Notification of accept/reject: July 10, 2018	• Author Registration Deadline: July 31, 2018

Special Session Chairs.

Pawan Lingras Saint Mary's University, Halifax, Canada, pawan@cs.smu.ca	Georg Peters Munich University of Applied Sciences & Australian Catholic University, Munich, Germany, georg.peters@hm.edu	Richard Weber University of Chile Santiago, Chile rweber@dii.uchile.cl	Hong Yu Chongqing University of Posts and Telecommunications, Chongqing, P. R. China, yuhong@cqupt.edu.cn
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