



Formal Concept Analysis, general operators and related topics

Formal Concept Analysis (FCA) is a mathematical tool for obtaining information from relational datasets. It has been related to other useful tool for extracting and handle information from databases, such as Rough Set Theory, Possibility Theory, Mathematical Morphology, Fuzzy Relation Equations, fuzzy logic, etc. They have been combined to obtain robust and efficient mechanisms taking advantage of the main properties of each of them, which have been successfully applied to data mining, information retrieval, knowledge management, data, knowledge engineering, image processing, etc. They have also been developed to make possible to tackle problems associated with the treatment and management of information with uncertainty. The purpose of this Special Session is to present new advances and interactions among these important tools and their applications to hot topics and relevant problems.

The not exhaustive list of topics includes:

- Formal concept analysis
- Fuzzy sets and fuzzy logic
- Rough sets
- Fuzzy rough sets
- Interval-valued fuzzy sets
- Operators in relational data analysis
- Fuzzy relation equations
- Mathematical morphology
- Aggregation operators in relational data analysis

Review process of special session submissions

Papers submitted to accepted special sessions will be treated as regular papers from both the perspective of the review process and of the proceedings (e.g., length, timeline). However, the session organizers will be asked to nominate reviewers.

Important Dates

- February 10th, 2024: Papers Submission
- April 10th, 2024: Notification of Acceptance
- May 3rd, 2024: Camera-ready paper submission.
- May 17th-20th, 2024: Conference

Organizers

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