

Workshop on "Fuzzy is Scalable: Managing Huge Databases Using Fuzzy Methods"

at the International Conference on Soft Computing as Transdisciplinary Science and Technology CSTST08

<http://www.lirmm.fr/~laurent/FiS/> <http://sigappfr.acm.org/cstst08/>



Summary

Fuzzy methods are in common use nowadays, as they provide tools to handle data sets in a relevant, robust and interpretable way. Yet they often suffer from the perception that they cannot address huge data bases, although it is not the case, as many applications, including industrial success stories, have shown: fuzziness and scalability are not antagonistic concepts.

The scalability issue indeed appears to be challenging when considering fuzzy methods as opposed to crisp ones, which is a counterpart to their improved flexibility and expression power. The application of fuzzy methods to huge data bases is often considered as inappropriate.

This issue has received attention from the research community and many methods have been proposed to address it from several points of view, including implementation of data structures and algorithmic approaches to handle complexity. The goal of the workshop is to review these scalable fuzzy methods and the up-to-date methods and algorithms that address this problem, showing that fuzzy logic is a very powerful approach to provide relevant results also for very large data bases within reasonable time and memory use.

The workshop will cover a wide scope of research areas where large data bases are queried, ranging from fuzzy data bases to fuzzy data mining and fuzzy control, and considering data bases of various types, including relational data, image, video or multimedia data as well as web data.

Topics include, but not limited to

- Managing, Querying and Mining Very Large Fuzzy Databases
- Fuzzy Mining in Very Large Databases
- Fuzzy Stream Mining
- Fuzzy Machine Learning
- Fuzzy Information Retrieval
- Fuzzy Semantic Web
- Fuzzy Control
- Fuzzy Logic and New Paradigms of Programming

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Important dates

Full paper submission: June 30, 2008

Notification of Paper Acceptance: August 15, 2008

Camera Ready Papers Due: September 17, 2008

Author Registration: September 17, 2008

Conference Dates: October 27-31, 2008

Paper submission

Paper submission must follow the conferences guidelines (ACM format with a limit of 6 pages). The papers will be published in the conference proceedings and indexed by the ACM Digital Library.

Selected papers will be published as book chapters in an edited book