Special Session on: "Context-Awareness Applied in Data Mining and Machine Learning" (CAADMML)

Session Chairs:

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Over the past few years, research and development in data mining and machine learning have made great progress. Many successful applications have been reported in journals and conferences. In general, data mining and machine learning systems typically help businesses to expose previously unknown patterns in their databases. It has now been recognized that mining for information and knowledge from large databases and documents will be the next revolution in database systems. It is considered very important to major cost savings and potential revenue increase with immediate applications in business, decision systems, information management, communication, scientific research and technology development. Since data mining is still a relatively new research field, a great deal of research and applications are still in progress.

In recent years, advanced data mining and machine learning techniques have been developed rapidly. More and more sophisticated techniques, such as association rules, fuzzy data mining, genetic algorithms applied to data mining, utility mining etc. have been proposed and many of them have already been deployed in many real-world applications. The major goal of this special session is to bring together the researchers in the data mining and machine learning field to illustrate its pressing actual needs, demonstrate challenging research issues, and exchange the state-of-the-art research and development.

Subject Coverage

Suitable topics include but are not limited to:
- Context-Awareness Applied in Classification Systems
- Context-Awareness Applied in Association Rules
- Context-Awareness Applied in Clustering
- Context-Awareness Applied in Sentiment Analysis
- Utility Mining
- Stream Mining
- Temporal Mining
- Spatial Mining
- Features Selection for Data Mining and Machine Learning
- Rough Set Applied to Data Mining and Machine Learning
- Fuzzy Set Applied to Data Mining and Machine Learning
- Genetic Algorithms Applied to Data Mining and Machine Learning
- Neural Network Applied to Data Mining and Machine Learning
- Applications of Data Mining and Machine Learning
- Text & Web Mining

Review Process

Papers submitted to this special session will be reviewed by at least three members of the program committee of ICCASA. All accepted papers will be published in the Lecture Notes of ICST (LNICST) series (Springer). LNICST is indexed in DBLP, Google Scholar, ISI Proceedings, EI, CrossRef and Zentralblatt Math.

Submission Guidelines

All papers must be submitted electronically in PDF format via the paper management system CONFY using the link on conference web site. There are two options for the submissions, either a full paper or a short paper. We decided to allow the submission of short papers in order to accommodate research in progress the most recent, but incomplete research outcomes. The submissions should be formatted with single-spaced, single-column pages using on A4 or letter pages in Springer LNICST style format. The maximum number of pages is 10 for full papers. Authors should submit a 4-page single-column manuscript for short paper The camera-ready version of an accepted full (short) paper cannot exceed 10 (4) pages. Detailed formatting and submission instructions are available on the conference web site. An accepted paper will appear in Springer LNICST proceedings only if at least one of its authors registers and attends the conference to present the paper.

Important Dates

Submission deadline: 31 July 2013
Notification of acceptance: 31 August 2013
Camera-ready deadline: 01 October 2013