



Call for Papers: ICDM 2003

The 3rd IEEE International Conference on Data Mining

Melbourne, Florida, USA, November 19-22, 2003

<http://www.cs.uvm.edu/~xwu/icdm-03.html>

Sponsored by the IEEE Computer Society

The 2003 IEEE International Conference on Data Mining (IEEE ICDM '03) provides a leading international forum for the sharing of original research results and practical development experiences among researchers and application developers from different data mining related areas such as machine learning, automated scientific discovery, statistics, pattern recognition, knowledge acquisition, soft computing, databases and data warehousing, data visualization, and knowledge-based systems. The conference seeks solutions to challenging problems facing the development of data mining systems, and shapes future directions of research by promoting high quality, novel and daring research findings. As an important part of the conference, the workshops program will focus on new research challenges and initiatives, and the tutorial program will cover emerging data mining technologies and the state-of-the-art of data mining developments.

High quality papers in all data mining areas are solicited. Papers exploring new directions will receive especially careful and supportive reviews. Topics related to the design, analysis and implementation of data mining theory, systems and applications are of interest. These include, but are not limited to the following areas:

Foundations of data mining * Data mining and machine learning algorithms and methods in traditional areas (such as classification, regression, clustering, probabilistic modeling, and association analysis), and in new areas * Mining text and semi-structured data, and mining temporal, spatial and multimedia data * Data and knowledge representation for data mining * Complexity, efficiency, and scalability issues in data mining * Data pre-processing, data reduction, feature selection and feature transformation * Post-processing of data mining results * Statistics and probability in large-scale data mining * Soft computing (including neural networks, fuzzy logic, evolutionary computation, and rough sets) and uncertainty management for data mining * Integration of data warehousing, OLAP and data mining * Human-machine interaction and visualization in data mining, and visual data mining * High performance and distributed data mining * Pattern recognition and scientific discovery * Quality assessment and interestingness metrics of data mining results * Process-centric data mining and models of data mining process * Security, privacy and social impact of data mining * Data mining applications in electronic commerce, bioinformatics, computer security, Web intelligence, intelligent learning database systems, finance, marketing, healthcare, telecommunications, and other fields

For research-track submissions, papers should be limited to a maximum of 6000 words (approximately 20 A4 pages), and will be reviewed by the Program Committee on the basis of technical quality, relevance to data mining, originality, significance and clarity. For industry-track submissions (a) the paper must not exceed 3000 words (b) at least one author should be from industry and the paper should be about industrial or other real-world applications of data mining and (c) a description of how the application has been conceived, developed and deployed must be provided. Accepted papers will be published in the conference proceedings by the IEEE Computer Society Press. ICDM Best Paper Awards will be conferred on authors of the best research paper and the best application paper. A selected number of accepted papers will be invited for possible inclusion, in an expanded and revised form, in the Knowledge and Information Systems journal (<http://www.cs.uvm.edu/~kais/>) by Springer-Verlag.

Dates: Paper submissions: June 10th; Acceptance notices: Aug. 15th; Camera-ready due: Sep. 10th; Conference: Nov. 19 – 22

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