



Fourth International Conference on Intelligent Data Engineering and Automated Learning (IDEAL2003)

Post-conference proceedings to be published by Springer-Verlag in the prestigious Lecture Notes in Computer Science series

Sponsored by Hong Kong Baptist University
Venue: Hong Kong Convention and Exhibition Centre
March 21-23, 2003, Hong Kong

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CALL FOR PAPERS

As a biennial conference, IDEAL was firstly launched from Hong Kong in 1998, which is dedicated to emerging and challenging topics in intelligent data analysis and engineering and their associated learning paradigms. Following the past highly successful IDEAL'98, IDEAL'00 and IDEAL'02, IDEAL will become an annual conference starting from 2003. The fourth conference will aim to provide a forum for researchers and engineers from academia and industry to meet and to exchange ideas on the latest developments in data engineering and learning, and to share their successes. IDEAL is an *ideal* forum for revealing and developing the latest theoretical advances and practical applications in intelligent data engineering and automated learning.

Technical areas include, but are not limited to:

Automated Learning:

Collaborative and Collective learning
Evolution, Learning and Adaptation
Evolutionary Computation
Neural Networks
Fuzzy Logic
Probabilistic Learning
Learning Algorithms and Applications

Data Mining:

Clustering and Classification
Data Warehouse and E-organizations
Indexing and Retrieval Methods
Internet Database
Knowledge Discovery
Medical Diagnosis and Database
Multi-model Data Analysis
Multivariate Data Visualization
Time series Analysis
Text and Web Mining

Agents:

Agent Architectures and Protocols
Autonomous Agents
Multi-agent Systems
Agent-based Applications
Autonomy-Oriented Computing
Distributed Problem Solving
Self-organizing Systems

Important Dates:

Submission of Paper: **January 15, 2003**
Notification of Acceptance: January 31, 2003

Bioinformatics:

Gene Prediction
Microarray Informatics
Novel Computational Algorithms and Tools
Protein Structural Prediction

Multimedia Information:

Multimedia Database
Speech Processing
Pattern Recognition
Image Processing
Feature Extraction Methods and Applications

Financial Engineering:

Electronic Commerce
Fraud Detection
Modeling and Forecasting
Portfolio Management
Risk Analysis and Management
Statistics and Econometrics
Volatility and Trading Strategies



Authors are invited to submit manuscripts written in English. All submissions will be refereed by experts in the field based on originality, significance, quality and clarity. All the accepted IDEAL'03 papers will be published by Springer in a post-conference proceeding. Authors should use the **style files** or **MS-Word templates** as provided by the Springer Lecture Notes to format their papers. The length of a submitted paper should not exceed **10** pages in the **Lecture Notes format**. Selected papers will be considered for publication in "*Web Intelligence and Agent Systems: An International Journal*" (IOS Press) and in "*Annual Review of Intelligent Informatics*" (World Scientific), after expansion and/or revision.

Authors should submit **three** copies of their manuscripts to the IDEAL2003 Secretariat (Address: Department of Computer Science, 7/F, Sir Run Run Shaw Building, Hong Kong Baptist University, Hong Kong) and submit a postscript or Adobe PDF file of their paper(s) by email (ideal03@comp.hkbu.edu.hk). Please visit the conference web site at <http://www.comp.hkbu.edu.hk/IDEAL2003> for instructions on the manuscript format and submission details.