EPSRC

Fifth International Conference on Intelligent Data Engineering and Automated Learning

IEEE

Organised in Collaboration with the EPSRC

IDEAL'04

Organised in Collaboration with the IEEE Neural Networks Council

Springer

August 25-27, Exeter, UK

IDEAL 2004 Secretariat, Dept. of Computer Science, University of Exeter, UK

Email: ideal04@exeter.ac.uk, URL: http://www.dcs.ex.ac.uk/ideal04

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IDEAL is a biennial conference dedicated to emerging and challenging topics in intelligent data analysis and engineering and their associated learning paradigms. Following the highly successful conferences held in Hong Kong and Manchester, the fifth conference (IDEAL'04) will be held in the historical city of Exeter located in the beautiful southwest of England.

This conference will unite researchers, scientists and practitioners the world over to present their findings, exchange ideas, and to share their successes. IDEAL'04 presents an opportunity to reveal and develop the latest theoretical advances and their real-world applications in *intelligent data engineering and automated learning* to other world experts. The main themes of this conference include (but are not limited to) Bioinformatics, Data Mining and Fusion, Learning and Information Processing, Financial Engineering and Agents.

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Technical areas include, but are not limited to:

Bioinformatics

Disordered Protein Prediction
Quantative Structure Activity Relationship Analysis
Metabolomics and Pathway Analysis
Protein Structural Prediction
Gene Expression Data Analysis
Bioinformatics Tools and Intelligent Decision Making Systems
Molecular Data Management
Novel Bioinformatics Algorithms

Learning and Information Processing

Neural Networks and Emergent Systems
Evolutionary Computation
Fuzzy Logic
Probabilistic Learning
Text and Web Mining
Speech and Image Processing
Feature Extraction and Pattern Recognition

Agents

Multi-agents Systems
Autonomous Agents
Agent Architectures and Protocols
Collaborative and Collective learning
Evolution, Learning and Adaptation
Self-Organising Systems

Data Mining

Clustering and Classification
Text and Web Mining
Multivariate Data Visualisation
Internet and Multimedia Database
Knowledge Discovery and Retrieval
Data Warehouse and E-organisations
Data Analysis
Medical Diagnosis and Database

Finance Engineering

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

PAPER SUBMISSION