

IDEAL 07

8th International Conference on Intelligent
Data Engineering and Automated Learning

Call for Papers

16-19 December 2007

Birmingham, UK

IDEAL is an annual conference dedicated to emerging and challenging topics in intelligent data analysis and engineering and their associated learning paradigms. After successful recent events in Burgos (2006), Brisbane (2005), Exeter (2004), Hong Kong (2003) and Manchester (2002), IDEAL 07 will be held in the well-established, vibrant city of Birmingham, the UK's second city.

General Co-chairs

Xin Yao, *Univ. of Birmingham, UK*
Benjamin Wah, *Univ. of Illinois, Urbana-Champaign, USA*

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Peter Tino, *UK (technical chair)*
Malik Magdon-Ismael, *USA (technical co-chair)*
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Contact

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Key Dates

Paper submission: 27 July 2007
Notification of acceptance: 31 August 2007
Author registration: 28 September 2007
Camera-ready papers: 28 September 2007
Conference: 16-19 December 2007

Keynote Speakers

Toby Gibson *European Molecular Biology Lab*
Josef Kittler *University of Surrey*
Piero Bonissone *GE*
Kevin Kelly *Carnegie Mellon University (TBC)*

Topics of Interest

Learning and Information Processing *Machine learning, Neural Networks, Emergent Systems, Probabilistic Learning, Clustering & Classification, Feature Selection & Extraction, Information Fusion, Evolutionary Computation, Fuzzy Logic, Applications*

Data Mining, Retrieval and Management *Rule-based Systems, Content-based Retrieval Systems, Text & Web Mining, Multivariate Data Visualisation, Internet & Multimedia Databases, Knowledge Discovery & Retrieval, Data Warehouse and E-organisations, Image/Video Analysis and Retrieval, Speech & Signal Processing, Medical Diagnosis & Databases*

Bioinformatics and Bio-inspired Models *Protein Structural Prediction, Gene Expression Data Analysis, Metabolomics & Pathway Analysis, Bioinformatics Tools & Intelligent Decision Making Systems, Molecular Data Management, Novel Bioinformatics Algorithms, Neuroinformatics, Bio-inspired Computing Models, Cognitive Learning & Memory, Brain-computer Interfaces*

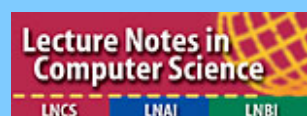
Agents and Hybrid Systems *Multi-agents Systems, Autonomous Agents, Agent Architectures & Protocols, Collaborative & Collective Learning, Self-Organising Systems, Reconfiguration Systems, Hybrid Systems & Applications, Fuzzy Neural Systems & Applications, Swarm Intelligence & Systems*

Financial Engineering *Electronic Commerce, Portfolio Management, Risk Analysis & Management, Fraud Detection, Modelling & Forecasting, Volatility & Trading Strategies*

Proceedings

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. Accepted papers will be included in IDEAL 2007 Proceedings to be published by Springer Verlag in the Lecture Notes in Computer Science Series.

Papers should comply with the format of LNCS/LNAI proceedings. (See Information for LNCS Authors - Springer Website).



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<http://www.cercia.ac.uk/other/2007/ideal>