



KES 2004 - Call for Papers

Eighth International Conference on Knowledge-Based Intelligent Information & Engineering Systems

20th – 24th September, 2004

Wellington Institute of Technology, Wellington, New Zealand
www.kesinternational.org/kes2004/

The eighth conference in the very successful **KES** series will be organised by **Wellington Institute of Technology** (WelTec) in Wellington, New Zealand.

WelTec was formed in 2001 from the combination of two academic institutions including the highly respected Central Institute of Technology (CIT) well recognised for high technology research spanning more than 20 years. WelTec is the largest technical institute in the Wellington region with over 10,000 students annually. **Wellington** is New Zealand's Capital City, the seat of Government and the nation's cultural heart.

We are pleased to invite papers on *Intelligent Systems and Techniques, Applications of Intelligent Techniques* and related areas within *Information Technology, Advanced Internet Technologies* as well as top leading technology fields: *Evolvable Hardware, DNA Computing, Bioinformatics*.

Preceding the conference will be the first **NZ – German School on Computational Intelligence** running (*free to delegates registering for the conference*) tutorials during the first two days of the conference. A *Panel Discussion on Future Trends in Intelligent Technologies and Knowledge Based Intelligent Information & Engineering Systems* will have prof. *Lotfi A. Zadeh* as a Chairman-moderator. The plenary *sessions*, and *contributory sessions* are focussed on the theory and applications of various intelligent techniques, including but not limited to the following topics of interest and areas of application:

SUBMISSION OF PAPERS

Papers are invited from prospective authors with interests on the indicated conference topics and related areas of application. All contributions should be original and not published elsewhere or intended to be published during the review period. Contributions from more applied related fields in industry and commerce are very welcome. Please see the web site for details of the required paper format and submission details. All oral and poster papers must be presented by one of the authors. To ensure high quality, all papers will be thoroughly reviewed by KES2004 Programme Committee. The conference proceedings will be published and distributed by a major publisher, for example Springer Verlag, or IOS Press, the Netherlands. Extended versions of selected papers will be considered for publication in the International Journal of Knowledge-Based Intelligent Engineering Systems. (www.brighton.ac.uk/kes/journal/)

IMPORTANT DEADLINES -

For General Sessions:

- * Submission of papers: 1 February 2004
- * Notification of acceptance: 1 April 2004
- * Final papers to reach KES Secretariat by: 1 May 2004
- * Special Session/ Workshop Proposal: 1 March 2004
- * All presenting authors must register with payment by 1 June 2004

If you have been invited to contribute a paper for a Special/ Invited Session, please contact the Session Chair for deadlines relating to the Session. Final papers for Special/Invited Sessions must reach the KES Secretariat by 1 May 2004.

All presenting authors (both General and Special/Invited Sessions) must register with payment by the 1 June 2004 deadline for their papers to appear in the proceedings.

SPECIAL SESSIONS

Scientists who would like to organise a special session of 5/6 papers on some topics falling within the scope of the conference are invited to contact the General Chair/ KES Secretariat. Proposals for special workshops or tutorials are also welcome.

Generic Topics of Interest:

Knowledge-Based Systems, Expert Systems, Neural Networks, Fuzzy Techniques and Systems, Genetic Algorithms and Evolutionary Computing, Hybrid Intelligent Systems, Intelligent Agents and Multi-Agent Systems, Knowledge Discovery and Data Mining, Machine Learning, Cognitive Modelling, Knowledge Representation and Management, Planning, Spatial & Temporal Reasoning, Knowledge Acquisition.

Intelligent Applications:

Industrial Control and Monitoring, Fault Diagnosis, Robotics, Image Processing, Machine & Computer Vision, Medical & Diagnostic Systems, Financial & Stock Market Monitoring and Prediction, Speech Processing and Synthesis, Natural Language Processing, Environmental Monitoring, Power Electronics & Drives, High Voltage Systems, Engine Control and Vehicle Applications; Signal Processing & Wavelets

Emerging Intelligent Technologies:

Evolvable Hardware, DNA Computing, Artificial Life, Bioinformatics using Intelligent & Machine Learning Techniques, Intelligent Tutoring Systems, Artificial Intelligence and the Internet, Information Agents on the Internet, E-commerce/E-business and E-learning, Intelligent Information Retrieval, Intelligent Web Mining & Applications, Intelligent User Interfaces, Virtual Reality & Multi-Media Intelligent Information Systems

EXHIBITORS

Manufacturers of hardware and software, publishers, etc., are invited to apply to exhibit their products to the international audience that will attend the conference.

THE CONFERENCE VENUE

KES2004 is organized by Wellington Institute of Technology, Wellington, New Zealand in co-operation with KES Secretariat based at the University of Brighton, UK. The conference venue is the Hotel Intercontinental. The Hotel is conveniently located opposite Wellington's waterfront playground and within walking distance of the national museum - Te Papa, Parliament Buildings, the bustling CDB.

ACCOMMODATION

A range of accommodation options will be provided at special conference rates at selected venues throughout the CDB to cater for all budgets. A limited number of delegates may benefit by a WelTec home stay programme.

WELLINGTON

Welcome to Wellington, New Zealand's capital city. Perched on the edge of a spectacular harbour, encircled by green, towering hills, Wellington is a stunning and compact city. Vibrant, exciting and cultured, the nation's capital combines the stimulation and sophistication of a big city with the quiriness of a charming village. Delegates will be invited to a conference reception for a formal welcome as well as to a conference banquet in the elegant ballroom at the conference venue. Delegates may wish to make personal arrangements for pre/post conference trips throughout New Zealand using a **Harvey World Travel** agency just at the conference site.



KES2004 is being organized by Wellington Institute of Technology, School of IT

General Chair: prof.dr. MIRCEA GH.NEGOITA,

Invited Co-Chair: prof. Dr. Bernd Reusch, University of Dortmund, Germany

KES2004 is part of the KES Conference Series, **Conference Founder and Honorary Programme Committee Chair:**

prof. L.C.Jain , University of South Australia

KES2004 is operated by the KES Secretariat, University of Brighton, UK, **Executive Chair: Dr. R.J.Howlett**

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Send us your details if you wish to be added to the KES2003 mail list.