



IEEE



华南理工大学 中山大学



# International Conference on Machine Learning and Cybernetics 2005 18 – 21 August 2005, Guangzhou, China

Websites: <http://www.icmlc2005.hbu.edu.cn> <http://www.comp.polyu.edu.hk/~cike/icmlc2005>

## Invited Session

### Application of Intelligent Techniques for Engineering

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| <b>Organizer:</b>   | <p><b>Loi Lei Lai</b><br/> Head, Energy Systems Group, School of Engineering &amp; Mathematical Sciences, City University, London EC1V 0HB, United Kingdom<br/> Tel: +44 (0)20 7040 3889/8935<br/> Fax: +44 (0)20 7040 8568<br/> E-mail: l.l.lai@city.ac.uk<br/> URL: <a href="http://www.city.ac.uk">http://www.city.ac.uk</a></p>   |
| <b>Description:</b> | <p>Intelligent techniques have a long history of successful applications to engineering problems. The advances in intelligent techniques are making them more popular in solving complex engineering problems. The objective of this special track is to provide an international forum for the participants to share knowledge, experience and new ideas and future trends in the application of intelligent techniques for engineering. The topics of interest are (but not limited to) the following:</p> <p><b>Generic Intelligent Tools, Techniques and Algorithms:</b><br/> Knowledge-Based Systems, Expert Systems, Artificial Neural Networks, Fuzzy and Neuro-fuzzy Techniques and Systems, Genetic Algorithms and Evolutionary Computing, Particle Swarm, Hybrid Intelligent Systems, Intelligent Agents and Multi-Agent Systems, Knowledge Discovery and Data Mining, Machine Learning, Cognitive Modelling, Knowledge Representation and Management, Planning, Spatial &amp; Temporal Reasoning, Knowledge Acquisition.</p> <p><b>Applications using Intelligent Techniques:</b><br/> Industrial Control and Monitoring, Fault Diagnosis, Robotics, Image Processing, Machine &amp; Computer Vision, Industrial Control, Medical &amp; Diagnostic Systems, Speech Processing and Synthesis, Natural Language Processing, Environmental Monitoring, Power Electronics &amp; Drives, Power Engineering, High Voltage Systems, Engine Control and Vehicle Applications, Intelligent Signal Processing and Wavelets, Financial Engineering.</p> <p><b>Emerging Intelligent Technologies:</b><br/> Artificial Intelligence and the Internet, Information Agents on the Internet, E-commerce/E-business and E-learning, Intelligent Information Retrieval, Intelligent Web Mining &amp; Applications, Intelligent User Interfaces, Bioinformatics using Intelligent &amp;</p> |

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|                           | Machine Learning Techniques, Intelligent Tutoring Systems, Virtual Reality & Multi-Media Intelligent Information Systems, Artificial Life.   |
| <b>Submission Format:</b> | Authors must submit an electronic copy (in word or pdf) of their complete manuscript directly to h.yan@cityu.edu.hk on or before April 30, 2005. The paper should be prepared according to the icmlc paper format. Authors will receive reviews by June 01, 2005 and author registration deadline is June 15, 2005. Camera ready copy of papers will be due by July 01, 2005 |