

# RELATED CONFERENCES, CALL FOR PAPERS, AND CAREER OPPORTUNITIES

## TCCI Sponsored Conferences

### WI 2004

#### The 2004 IEEE/WIC/ACM International Conference on Web Intelligence

Beijing, China

September 20-24, 2004

<http://www.maebashi-it.org/WI04/>

<http://www.comp.hkbu.edu.hk/WI04/>

Submission Deadline: April 4, 2004

Web Intelligence (WI) has been recognized as a new direction for scientific research and development to explore the fundamental roles as well as practical impacts of Artificial Intelligence (AI) (e.g., knowledge representation, planning, knowledge discovery and data mining, intelligent agents, and social network intelligence) and advanced Information Technology (IT) (e.g., wireless networks, ubiquitous devices, social networks, wisdom Web, and data/knowledge grids) on the next generation of Web-empowered products, systems, services, and activities. It is one of the most important as well as promising IT research fields in the era of Web and agent intelligence.

The 2004 IEEE/WIC/ACM International Conference on Web Intelligence (WI'04) will be jointly held with the 2004 IEEE/WIC/ACM International Conference on Intelligent Agent Technology (IAT'04). The IEEE/WIC/ACM 2004 joint conferences are sponsored and organized by IEEE Computer Society Technical Committee on Computational Intelligence (TCCI), Web Intelligence Consortium (WIC), and ACM-SIGART.

Following the great successes of WI'01 held in Maebashi City, Japan and WI'03 held in Halifax, Canada, WI 2004 provides a leading international forum for researchers and practitioners (1) to present the state-of-the-arts of WI technologies; (2) to examine performance characteristics of various approaches in Web-based intelligent information technology; and (3) to cross-fertilize ideas on the development of Web-based intelligent information systems among different domains. By idea-sharing and discussions on the underlying foundations and the enabling technologies of Web intelligence, WI 2004 will capture current important developments of new models, new methodologies and new tools for building a variety of embodiments of Web-based intelligent information systems.

### IAT 2004

#### The 2004 IEEE/WIC/ACM International Conference on Intelligent Agent Technology

Beijing, China

September 20-24, 2004

<http://www.maebashi-it.org/IAT04/>

<http://www.comp.hkbu.edu.hk/IAT04/>

Submission Deadline: April 4, 2004

The 2004 IEEE/WIC/ACM International Conference on Intelligent Agent Technology (IAT'04) will be jointly held with the 2004 IEEE/WIC/ACM International Conference on Web Intelligence (WI'04). The IEEE/WIC/ACM 2004 joint conferences are sponsored and organized by IEEE Computer Society Technical Committee on Computational Intelligence (TCCI), Web Intelligence Consortium (WIC), and ACM-SIGART. The upcoming meeting in this conference series follows the great success of IAT-99 held in Hong Kong in 1999, IAT-01 held in Maebashi City, Japan in 2001, IAT-03 held in Halifax, Canada.

IAT 2004 provides a leading international forum to bring together researchers and practitioners from diverse fields, such as computer science, information technology, business, education, human factors, systems engineering, and robotics, to (1) examine the design principles and performance characteristics of various approaches in intelligent agent technology, and (2) increase the cross-fertilization of ideas on the development of autonomous agents and multi-agent systems among different domains. By encouraging idea-sharing and discussions on the underlying logical, cognitive, physical, and sociological foundations as well as the enabling technologies of intelligent agents, IAT 2004 will foster the development of novel paradigms and advanced solutions in agent-based computing.

### ICDM'04

#### The Fourth IEEE International Conference on Data Mining

Brighton, UK

November 1-4, 2004

<http://icdm04.cs.uni-dortmund.de/>

Submission Deadline: June 1, 2004

The IEEE International Conference on Data Mining (ICDM) provides a leading international forum for the sharing of original research results and practical development experiences among researchers and application developers from different data mining related areas such as machine learning, automated

scientific discovery, statistics, pattern recognition, knowledge acquisition, soft computing, databases and data warehousing, data visualization, and knowledge-based systems. The conference seeks solutions to challenging problems facing the development of data mining systems, and shapes future directions of research by promoting high quality, novel and daring research findings. As an important part of the conference, the workshops program will focus on new research challenges and initiatives, and the tutorial program will cover emerging data mining technologies and the state-of-the-art of data mining developments.

In addition to business oriented data mining, ICDM has an equal emphasis on engineering, scientific, and medical data for which domain knowledge plays a significant role in knowledge discovery and refinement.

ICDM is held annually, in different regions of the world.

Topics related to the design, analysis and implementation of data mining theory, systems and applications are of interest. See the conference Web site for more information.

### KGGI'04

#### The Second International Workshop on Knowledge Grid and Grid Intelligence

Beijing, China

September 20, 2004

<http://kg.ict.ac.cn/kggi04/default.htm>

Submission Deadline: June 10, 2004

The purpose of this workshop is to bring researchers and practitioners to identify and explore the issues, opportunities, and solutions for Knowledge Grid and Grid Intelligence. It will provide a forum for free exchange of ideas and will be featured by invited talks and refereed paper presentations. Authors are invited to submit regular papers, reports on work in progress, and position papers. Appropriate topics include, but are not limited to, the following: Knowledge Grid, Semantic Grid and Semantic Web, Grid, Web and Self-organized Intelligence, Data/Information/Knowledge/Service, Integration, Mediation and Middleware, Ontology, Knowledge Discovery, Distributed Knowledge Management, Cooperative Teamwork and Agent-based Workflow, Web/Grid-based Decision Making, Self-organizing Systems and Emergent Organization, Computational Economy on Grid, Web and Grid Dynamics, and Applications in e-Science, e-Business, and e-Government.

## Other Computational Intelligence Conferences

### AAMAS'04

**The Third International Joint Conference on Autonomous Agents and Multi-Agent Systems**  
New York City, USA  
July 19-21, 2004

<http://satchmo.cs.columbia.edu/aamas04/>

Agents are one of the most prominent and attractive technologies in computer science at the beginning of the new millennium. The technologies, methods, and theories of agents and multiagent systems are currently contributing to many diverse domains such as information retrieval, user interfaces, electronic commerce, robotics, computer mediated collaboration, computer games, education and training, ubiquitous computing, and social simulation. They are not only a very promising technology, but they are also emerging as a new way of thinking: a conceptual paradigm for analyzing problems and for designing systems, for dealing with complexity, distribution, and interactivity while providing a new perspective on computing and intelligence. The AAMAS conferences aim to bring together the world's researchers active in this important, vibrant, and rapidly growing field.

The AAMAS conference series was initiated in 2002 as a merger of three highly respected individual conferences: AGENTS (International Conference on Autonomous Agents) ICMAS (International Conference on Multi-Agent Systems), and ATAL (International Workshop on Agent Theories, Architectures, and Languages). The aim of the joint conference is to provide a single, high-profile, internationally renowned forum for research in the theory and practice of autonomous agents and multiagent systems. The first two AAMAS conferences (AAMAS-2002, Bologna, Italy and AAMAS-2003, Melbourne, Australia) are significant events in the academic history of agent systems. We expect AAMAS-04 to build on these successes and stand out as a key date on the international computing research calendar.

### EEE'04

**The 2004 IEEE International Conference on e-Technology, e-Commerce and e-Service**  
Taipei, Taiwan  
March 28-31, 2004  
<http://bikmrdoc.lm.fju.edu.tw/eee04/>

The 2004 IEEE International Conference on e-Technology, e-Commerce and e-Service (EEE-04) aims to bring together researchers and developers from diverse areas of computing, developers and practitioners to explore and address the challenging research issues on e-technology in order to develop a common research agenda and vision for e-commerce and e-business. The main focus of the conference is on the enabling technologies to facilitate next generation, intelligent e-Business, e-Commerce and e-Government. The conference solicits research papers as well as proposals for tutorials on all aspects of e-Commerce, e-Business, and e-Service.

### SDM'04

**The Fourth SIAM International Conference on Data Mining**  
Orlando, Florida, USA  
April 22-24, 2004  
<http://www.siam.org/meetings/sdm04/>

The Fourth SIAM International Conference on Data Mining will provide a forum for the presentation of peer-reviewed recent results in all aspects of data mining. The conference program will also include keynote talks and tutorials by leading experts, as well as several workshops on topics of current interest on the final day of the conference.

The Fourth SIAM International Conference on Data Mining will provide several workshops on topics of current interest in data mining on April 22, 2004.

Workshop on clustering high dimensional data and its application  
<http://www.cs.utexas.edu/users/inderjit/sdm04.html>  
Workshop on mining scientific and engineering datasets  
<http://www.cs.colorado.edu/~mburl/MSD04/>  
Workshop on high performance and distributed data mining  
<http://www.cis.ohio-state.edu/~agrawal/hpdm04.html>

Workshop on bioinformatics  
<http://www.ist.temple.edu/sbw04/>

Workshop on data mining in resource constrained environments  
<http://ic.arc.nasa.gov/siam/>

Workshop on link analysis, counterterrorism and privacy preserving data mining  
<http://www.cs.umn.edu/aleks/sdm04w/>

Proceedings of the conference will be available both online at the SIAM Web site and in hard copy form. The online proceedings of the last year's SIAM data mining conference, which was held in San Francisco, CA, is available at: <http://www.siam.org/meetings/sdm03>.

### ISWC2004

**The Third International Semantic Web Conference**  
Hiroshima, Japan  
7-11 November, 2004  
<http://iswc2004.semanticweb.org/>

The vision of the Semantic Web is to make the contents of the Web unambiguously computer interpretable, enabling automation of a diversity of tasks currently performed by human beings. The goal of providing semantics and automated reasoning capabilities to the Web draws upon research in a broad range of areas including Artificial Intelligence, Databases, Software Engineering, Distributed Computing and Information Systems. Contributions to date have included languages for semantic annotation of Web documents, automated reasoning capabilities for Web languages, ontologies, query and view languages, semantic translation of Web contents, semantic integration middleware, technologies and principles for building multi-agent and Grid systems, semantic interoperation of programs and devices, technologies and principles for describing, searching and composing Web Services, and more.

The 3rd International Semantic Web Conference (ISWC2004) follows on the success of previous conferences and workshops in Sanibel Island, USA (2003), Sardinia, Italy (2002), and Stanford, USA (2001).

The organizing committee solicits research submissions for the main research track of the conference, as well as for the accompanying industrial and posters track: Research Track, Industrial Track and Posters Track.

## Call For Papers

### The IEEE Computational Intelligence Bulletin

### Special Issue on Detection of Malicious Attacks

#### Aim

This special issue will be devoted to the detection of malicious attacks using AI techniques. A malicious attack could be done by various means: malicious code injection, malicious software, unauthorized access, etc.

Software detection mechanisms currently deployed are mostly based on signature techniques. They are ineffective for unknown malicious code and many other forms of attacks requiring constant maintenance to remain effective. Detection mechanisms based on role descriptions can deal with unknown attacks but require manual intervention. Artificial intelligence techniques and algorithms can offer higher level solutions avoiding these shortcomings.

#### Scope

Contributions should discuss the application of artificial intelligence techniques to the detection of malicious attacks of various forms (e.g. malicious code, unauthorized access). The detection could be network based, host based, or across network systems. The paper should contain experimental data and/or a clearly presented algorithmic approach.

Original papers are solicited in, but not limited to, the following AI techniques applied to malicious attacks detection:

- Expert systems
- Multiagent systems
- Neural networks
- Genetic algorithms
- Fuzzy logic
- Knowledge representation
- Learning algorithm

#### Important Dates:

Submission deadline: May 15th, 2004  
Notification of acceptance: Aug 15th, 2004  
Final papers: Sep 30th, 2004  
Publication of special issue: Dec 2004

#### Submission of Manuscripts:

Paper submission should be sent, via email, to the Guest Editor. The accepted formats are MS Word and L<sup>A</sup>T<sub>E</sub>X according to the submission guidelines described at:

<http://www.comp.hkbu.edu.hk/~cib/submission.html>

We would appreciate an intent of submission, in the form of an abstract via email, as early as possible to plan the reviewing process.

For further information please contact the Guest Editor or Feature Article Editor.

#### Guest Editor:

Dr. Mario Latendresse  
Science and Technology Advancement Team  
Fleet Numerical Meteorology and Oceanography Center  
U.S. Navy  
7 Grace Hopper Ave. Stop 1  
Monterey, CA 93943-5501 USA  
Tel: (831) 656-4826  
Fax: (831) 656-4363  
Email: [mario.latendresse.ca@metnet.navy.mil](mailto:mario.latendresse.ca@metnet.navy.mil)

#### Feature Article Editor:

Dr. Michel Desmarais  
Computer Engineering,  
Ecole Polytechnique de Montreal  
P.O. Box 6079, Station Centre-Ville  
Montreal (Quebec) Canada  
Tel: (514) 340-4711 ext:3914  
Email: [michel.desmarais@polymtl.ca](mailto:michel.desmarais@polymtl.ca)

## Post-Doctoral Research Fellows in Multi-Agent Systems and Grid Computing

Centre for E-Transformation Research (CETR) at Hong Kong Baptist University (URL: <http://www.comp.hkbu.edu.hk/~wic-hk>) is seeking Post-Doctoral Research Fellows to join in a government-funded research project focusing on advanced research (e.g., novel algorithms and computational architectures) in the areas of multi-agent systems, data mining, and grid computing, with scalable applications to e-business and e-learning.

The positions will be funded for three years. Other major strategic collaborative partners include The Hong Kong University of Science and Technology and E-business Technology Institute, The University of Hong Kong. Close scientific collaborations with other overseas and mainland research institutions will be needed.

With a Ph.D. degree in a relevant area, applicants for the positions must have a demonstrated research record and experiences in web intelligence, multi-agent systems, and/or data mining. Experiences in other areas such as web services, semantic grid, and/or mobile/pervasive computing are also desirable.

Salary will be commensurate with qualifications and experiences.

The positions are immediately available. An initial 9-month contract will be offered with the possibility of being renewed for up to three years.

Interested applicants are invited to send a CV and two letters of recommendation to:

Prof. Jiming Liu  
Director, Centre for E-Transformation Research  
Head, Department of Computer Science  
Hong Kong Baptist University  
Kowloon Tong  
Hong Kong  
Email: [jiming@comp.hkbu.edu.hk](mailto:jiming@comp.hkbu.edu.hk)  
URL: <http://www.comp.hkbu.edu.hk/~jiming>