RELATED CONFERENCES & CALL FOR PAPERS

TCCI Sponsored Conferences

ICDM'03
The Third IEEE International Conference on Data Mining
Melbourne, Florida, USA
November 19-22, 2003
http://www.cs.uvm.edu
/~xwu/icdm-03.html
Submission Deadline: June 10, 2003

The 2003 IEEE International Conference on Data Mining (IEEE ICDM '03) 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.

Topics related to the design, analysis and implementation of data mining theory, systems and applications are of interest. These include, but are not limited to the following areas: foundations of data mining, data mining algorithms and methods in traditional areas (such as classification, clustering, probabilistic modeling, and association analysis), and in new areas, mining text and semi-structured data, and mining temporal, spatial and multimedia data, data and knowledge representation for data mining, complexity, efficiency, and scalability issues in data mining, data pre-processing, data reduction, feature selection and feature transformation, post-processing of data mining results, statistics and probability in large-scale data mining, soft computing (including neural networks, fuzzy logic, evolutionary computation, and rough sets) and uncertainty management for data mining, integration of data warehousing, OLAP and data mining, human-machine interaction and visualization in data mining, and visual data mining, high performance and distributed data mining, machine learning, pattern recognition and scientific discovery, quality assessment and interestingness metrics of data mining results,

process-centric data mining and models of data mining process, security, privacy and social impact of data mining, and data mining applications in electronic commerce, bioinformatics, computer security, Web intelligence, intelligent learning database systems, finance, marketing, healthcare, telecommunications, and other fields.

WI 2003
The 2003 IEEE/WIC International Conference on Web Intelligence
Halifax, Canada
October 13-17, 2003
http://www.comp.hkbu.edu.hk
/WI03/

Web Intelligence (WI) is a new direction for scientific research and development that explores the fundamental roles as well as practical impacts of Artificial Intelligence (AI) and advanced Information Technology (IT) on the next generation of Web-empowered products, systems, services, and activities. It is the key and the most urgent research field of IT in the era of World Wide Web and agent intelligence. The IEEE/WIC 2003 joint conferences are sponsored and organized by IEEE Computer Society Technical Committee on Computational Intelligence (TCCI) and by Web Intelligence Consortium (WIC), an international organization dedicated to the promotion of world-wide scientific research and industrial development in the era of Web and agent intelligence.

The technical issues to be addressed include, but not limited to: Intelligent Web-Based Business, Knowledge Networks and Management, Ubiquitous Computing and Social Intelligence, Intelligent Human-Web Interaction, Web Information Management, Web Information Retrieval, Web Agents, Web Mining and Farming, Emerging Web Technology.

IAT 2003
The 2003 IEEE/WIC International Conference on Intelligent Agent Technology
Halifax, Canada
October 13-17, 2003
http://www.comp.hkbu.edu.hk
/IAT03/

The 2003 IEEE/WIC International Conference on Intelligent Agent Technology (IAT 2003) is a high-quality, high-impact agent conference, which is jointly held with the 2003 IEEE/WIC International Conference on Web Intelligence (WI 2003). The IEEE/WIC 2003 joint conferences are sponsored and organized by IEEE Computer Society Tech-

nical Committee on Computational Intelligence (TCCI) and by Web Intelligence Consortium (WIC), an international organization dedicated to the promotion of world-wide scientific research and industrial development in the era of Web and agent intelligence.

The upcoming meeting in this conference series follows the great success of IAT-99 held in Hong Kong in 1999 (http://www.comp.hkbu.edu.hk/IAT99/) and IAT-01 held in Maebashi City, Japan in 2001 (http://kis.maebashi-it.ac.jp/iat01/). The aim of IAT 2003 is 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. The technical issues to be addressed include, but not limited to: Applications, Computational Models, Architecture, and Infrastructure, Autonomy-Oriented Computation (AOC) Paradigm, Learning and Self-Adapting Agents, Data and Knowledge Management Agents, and Distributed Intelligence.

Other Computational Intelligence Conferences

AAMAS'03
The Second International Joint Conference on Autonomous Agents and Multi-Agent Systems
Melbourne, Australia
July 14-18, 2003
http://www.aamas-conference.org

Agents are one of the most prominent and attractive technologies in computer science at the beginning of the new milennium. 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 not only are a very promising technology, but 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 (ICMAS, AGENTS, and ATAL). 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.

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IJCAI'03
The Eighteenth International Joint
Conference on Artificial Intelligence
Acapulco, Mexico
August 9-15, 2003
http://www.ijcai-03.org/
1024/index.html

The IJCAI-03 Program Committee invites submissions of full technical papers for IJCAI-03, to be held in Acapulco, Mexico, August 9-15, 2003. Submissions are invited on substantial, original, and previously unpublished research on all aspects of Artificial Intelligence. Refer to the web site for the list of related keywords.

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ISMIS 2003
The Fourteenth International Symposium
on Methodologies for Intelligent Systems
Maebashi TERRSA, Maebashi City, Japan
October 28-31, 2003
http://www.wi-lab.com/ismis03/

This Symposium is intended to attract individuals who are actively engaged both in theoretical and practical aspects of intelligent systems. The goal is to provide a platform for a useful exchange between theoreticians and practitioners, and to foster the cross-fertilization of ideas in the following areas: active media human-computer interaction, autonomic and evolutionary computation, intelligent agent technology, intelligent information retrieval, intelligent information systems, knowledge representation and integration, knowledge discovery and data mining, logic for artificial intelligence, soft computing, and Web intelligence. In addition, we solicit papers dealing with Applications of Intelligent Systems in complex/novel domains, e.g. human genome, global change, manufacturing, health care, etc.

UNIVERSITÀ DEGLI STUDI DI PARMA
DIPARTIMENTO DI INGEGNERIA DELL'INFORMAZIONE

Call For Participation: EvoNet Summer School 2003 in Evolutionary Computing

University of Parma, Italy
24 - 31 August 2003
http://www.evonet.info/summerschool2003/

The 6th EvoNet Summer School is for everyone who wants to learn about evolutionary computing and how to apply it in real world problems. Organised by the EvoNet Network of Excellence and the University of Parma, it is especially aimed at PhD students, postdocs, researchers and practitioners, and repeats a winning formula of presenting challenging problems with appropriate tools and tutorials to solve them in practical sessions. The focus is on teamwork, collaboration and pooling resources with numbers limited to maximise learning and student interaction.

Highlights include:

- A selection of challenging real-life problems and easy-to-use tools
- Problem solving in small teams
- Introductory lectures for first-time users and advanced tutorials for more experienced researchers
- Practical, hand-on sessions to maximise learning
- Skill tutorials on conducting good research, writing papers and giving presentations
- Guidance from leading researchers in European evolutionary computing

Problems areas and the Senior Researchers presenting them will include:

- Exploring mechanisms to deal with problems embedded in dynamic environments - Ernesto Costa, University of Coimbra
- Evolution and analysis of neural robot controllers - Tom Ziemke, University of Skvde
- Automatic Concept Evolution - Terry Fogarty, South Bank University
- N-Player Iterated Prisoner's Dilemma Games - Xin Yao, University of Birmingham
- Fast Advanced Unconventional Genetic Programming - Riccardo Poli, University of Essex
- A 2D cutting problem from glass industry - Gunther Raidl, Vienna University of Technology

The EvoNet Summer School will be held in the historic town of Parma with its rich cultural and gastronomic traditions. Local Organiser: Stefano Cagnoni, Department of Computer Engineering, University of Parma.

Call For Papers and Special Issues Proposals:

The IEEE Computational Intelligence Bulletin (ISSN 1727-5997 & ISSN 1727-6004)

The IEEE Computational Intelligence Bulletin is the official publication of the Technical Committee on Computational Intelligence (TCCI) of the IEEE Computer Society. The Bulletin publishes **technical or survey articles** as well as **special thematic issues**. We welcome manuscripts that focus on original theories, methods, tools, techniques, systems, and experiences for/in developing and applying biologically and linguistically motivated computational paradigms, such as artificial neural networks, fuzzy logic, evolutionary optimization, rough sets, and self-organization in the research and application domains, such as data mining, Web intelligence, intelligent agent technology, parallel and distributed information processing, and virtual reality. Manuscripts should be submitted to the Associate Editors of respective sections.

If you plan to propose or organize a special issue in certain areas of general interest, please feel free to contact Dr. Jiming Liu, the Bulletin's Editor-in-Chief, via email at `jiming@comp.hkbu.edu.hk`.

Call For Papers: IEEE Intelligent Systems Special Issue

Mining the Web for Actionable Knowledge
Submissions due 1 Aug. 2003

Recently, there is much work on data mining on the Web to discover novel and useful knowledge about the Web and its users. Much of this knowledge can be consumed directly by computers rather than humans. Such actionable knowledge can be applied back to the Web for measurable performance improvement. For example, knowledge about user behavior and usage patterns can be used to build adaptive user interfaces and high-performance network systems. Web site structure provides important content and linkage information that can be used for Web searches. Web pages can be wrapped for building more convenient Web services. This special issue of IEEE Intelligent Systems will feature articles that address the problem of actionable data mining on the Web. We are particularly interested in papers that offer measurable gains in terms of well-defined performance criteria through Web data mining.

For this special issue, we invite original, high-quality submissions that address all aspects of Web mining for actionable knowledge. Submissions must address the issues of what knowledge is discovered and how such knowledge is applied to improve the performance of Web based systems. Topics of interest include but are not limited to

- Web information extraction and wrapping
- Web resource discovery and topic distillation
- Web search
- Web services
- Web mining for searching, querying, and crawling
- Web content personalization
- Adaptive Web sites
- Adaptive Web caching and prefetching

Special Issue Guest Editors

- Craig Knoblock, University of Southern California, Information Sciences Institute
- Xindong Wu, University of Vermont
- Qiang Yang, Hong Kong University of Science and Technology

Important Dates

- 1 Aug. 2003: Submissions due
- 5 Sept. 2003: Notification of acceptance
- 7 Nov. 2003: Final version submitted
- 9 Jan. 2004: Issue ships

Submission Guidelines

Submissions should be 3,000 to 7,500 words (counting a standard figure or table as 250 words) and should follow the magazines style and presentation guidelines (see `http://computer.org/intelligent/author.htm`). References should be limited to 10 citations. Send submissions to `qyang@cs.ust.hk`.

Call For Papers: Special Session on

Multi-agent Learning, Game-theoretic and Negotiation Agents in CIRAS03
`http://ciras.nus.edu.sg/2003/mas_sim.pdf`
DEADLINE: August 1, 2003

Special Issue in Journal
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Extended versions of selected high quality papers from this session will be invited to submit to a special issue on Learning Approaches for Negotiation Agents and Automated Negotiation in the International Journal of Intelligent Systems (Guest Editor: Professor Kwang M. Sim).

Page length: Max. 6 pages, 2-column IEEE Format.

Instructions for preparing manuscripts are provided at `http://ciras.nus.edu.sg/2003/submission.html`.

Submit all manuscripts in pdf format via e-mail to: Professor Kwang M. SIM, `kmsim@ie.cuhk.edu.hk`
`http://www.ie.cuhk.edu.hk/people/ben.php`