

Title/Editors for WI'05 Proceedings:

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Proceedings of the IEEE/WIC/ACM International Conference
on Web Intelligence (WI 2005)

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Compiègne University of Technology, France

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Sponsored by
IEEE Computer Society Technical Committee on Intelligent Informatics (TCII)
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Welcome Message from Conference Chairs and Program Chair

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Welcome to the 2005 IEEE/WIC/ACM International Joint Conference on
Intelligent Agent Technology and Web Intelligence (WI'05 and IAT'05).
On behalf of the WI'05 and IAT'05 Conference Committees, we would like to
thank you for coming to WI'05 and IAT'05, and we hope you will enjoy
the conference technical and social programs.

The IEEE/WIC/ACM 2005 joint conferences are sponsored and organized by
IEEE Computer Society Technical Committee on Intelligent Informatics (TCII),
Web Intelligence Consortium (WIC), and ACM-SIGART.

The upcoming meeting in this conference series follows the great success
of WI'01 held in Maebashi City, Japan, WI'03 held in Halifax, Canada, and WI'04
held in Beijing, China.
WI 2005 provides a leading international forum for researchers and practitioners

(1) to present the state-of-the-art 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 2005 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.

Both WI and IAT are interdisciplinary fields of research and
development. The topics of WI'05 and IAT'05 will cover, but not be
limited to, the following:

Topics of WI'05

World Wide Wisdom Web (W4)

Distributed Resources Optimization
Goal-Directed Services Support
Information and Knowledge Markets
Knowledge Community Formation and Support
Meta-Knowledge Discovery and Representation
New Social Interaction Paradigms
Problem Solver Markup Language (PSML)
Regularities and Laws of W4
Search of Best Means and Ends

Service Self-Aggregation
Social and Psychological Contexts
Web Inference Engine

Social Networks and Social Intelligence

Entertainment
Knowledge Community Formation and Support
Link Topology and Site Hierarchy
Intelligent Wireless Web
Social Networks Mining
Theories of Small-World Web
Ubiquitous Computing
Ubiquitous Learning Systems
Virtual and Web Communities
Web-Based Cooperative Work
Web Site Clustering

Knowledge Grids and Grid Intelligence

Brokering and Scheduling
Knowledge Resources and Services Discovery
Middleware Architectures and Tools
On-Demand Planning and Routing
Semantic Grids

Web Mining and Farming

Context Sensitive Web Mining
E-Mail Classification
Data Warehousing
Learning User Profiles
Multimedia Data Mining
Mining Data Streams
Text Mining
Web Farming and Warehousing
Web Content Mining
Web Information Clustering
Web Information Indexing
Web Log and Usage Mining
Web Page Clustering and Mining
Web Site Classification

Semantics and Ontology Engineering

Ontology-Based Information Extraction and Retrieval
Ontology-Based Web Mining
Web-Based Ontology Learning
Semantic Web

Web Agents

Agent Networks and Topologies
Coordination
Distributed Problem Solving
Global Information Foraging
Macroscopic Behavior Modeling
Mobile Agents
Remembrance Agents
Resource Intermediary and Coordination Mechanisms
Self-Organization and Reproduction
Trust Models for Web Agents

Web Services

Matchmaking
Middleware-Based Ubiquitous Services
Service-Oriented Computing

Web Service Reconfiguration
Web Service Workflow Composition
Grid Services

Web Information Filtering and Retrieval

Automatic Cataloging and Indexing
Clustering-Based Recommender Systems
Collaborative Filtering
Digital Library
Distributed Web Search
Hybrid Recommendation
Information Retrieval Criteria and Evaluations
Proxy and Cache Techniques
Search Engines and Meta-search Engines
Specifications for Web Information Extraction Process
Web Crawling Systems
Web Information Categorization and Ranking
Web Prediction and Prefetching

Intelligent Human-Web Interaction

Adaptive Web Interfaces
Context-Aware Computing
Learning User Profiles
Multimedia Representation
Personalized Interfaces
Personalized Web Sites
Social and Psychological Issues
Visualization of Information and Knowledge

Web Support Systems

Information Retrieval Support Systems
Web Site Navigation Support Systems
Recommender Support Systems
Soft Computing (including neural networks, fuzzy logic, evolutionary computation, rough sets, and granular computing) and Uncertainty Management for WI
Web-Based Decision Support Systems

Intelligent E-Technology

Collaborative Filtering and Recommendation
Business Intelligence
Decentralized Community Communication Techniques
E-Business and E-Commerce
E-Community
E-Finance
E-Government
E-Learning
E-Publishing
E-Science
Intelligent Enterprise Portals
Web-Based Direct Marketing and CRM
Web-Based EDI
Web Security, Integrity, Privacy and Trust

Topics of IAT'05

Autonomy-Oriented Computing (AOC)

Agent-Based Complex Systems Modeling and Development
Agent-Based Simulation
Autonomy-Oriented Modeling and Computation Methods
Behavioral Self-Organization
Complex Behavior Characterization and Engineering

Emergent Behavior
Hard Computational Problem Solving
Self-Organized Criticality
Self-Organized Intelligence
Swarm Intelligence
Nature-Inspired Paradigms

Autonomous Knowledge and Information Agents

Agent-Based Distributed Data Mining
Agent-Based Knowledge Discovery And Sharing
Autonomous Information Services
Distributed Knowledge Systems
Emergent Natural Law Discovery in Multi-Agent Systems
Evolution of Knowledge Networks
Human-Agent Interaction
Information Filtering Agents
Knowledge Aggregation
Knowledge Discovery
Ontology-Based Information Services

Agent Systems Modeling and Methodology

Agent Interaction Protocols
Cognitive Architectures
Cognitive Modeling of Agents
Emotional Modeling
Fault-Tolerance in Multi-Agent Systems
Formal Framework for Multi-Agent Systems
Information Exchanges in Multi-Agent Systems
Learning and Self-Adaptation in Multi-Agent Systems
Mobile Agent Languages and Protocols
Multi-Agent Autonomic Architectures
Multi-Agent Coordination Techniques
Multi-Agent Planning and Re-Planning
Peer-to-Peer Models for Multi-Agent Systems
Reinforcement Learning
Social Interactions in Multi-Agent Systems
Task-Based Agent Context
Task-Oriented Agents

Distributed Problem Solving

Agent-Based Grid Computing
Agent Networks in Distributed Problem Solving
Collective Group Behavior
Coordination and Cooperation
Distributed Intelligence
Dynamics of Agent Groups and Populations
Efficiency and Complexity Issues
Market-Based Computing
Problem-Solving in Dynamic Environments
Distributed Search

Autonomous Auctions and Negotiation

Agent-Based Marketplaces
Auction Markets
Combinatorial Auctions
Hybrid Negotiation
Integrative Negotiation
Mediating Agents
Pricing Agents
Thin Double Auctions

Applications

Agent-Based Assistants

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Agent-Based Virtual Enterprise
Embodied Agents and Agent-Based Systems Applications
Interface Agents
Knowledge and Data Intensive Systems
Perceptive Animated Interfaces
Scalability
Social Simulation
Socially Situated Planning
Software and Pervasive Agents
Tools and Standards
Ubiquitous Systems and E-Technology Agents
Ubiquitous Software Services
Virtual Humans
XML-Based Agent Systems

Continuing their strong presence among similar events WI'05 and IAT'05 managed to attract 633 submissions (328 for WI'05 and 305 for IAT'05) to the research and industry tracks from 55 countries and territories including: Algeria, Australia, Austria, Azerbaijan, Bangladesh, Belgium, Brazil, Canada, China, Colombia, Cyprus, Czech Republic, Denmark, Finland, France, Germany, Greece, Hong Kong, India, Iran, Ireland, Israel, Italy, Japan, Korea, Lebanon, Luxembourg, Malaysia, Mexico, Myanmar, New Zealand, Norway, Pakistan, Paraguay, Poland, Portugal, Romania, Russia, Saudi Arabia, Serbia and Montenegro, Singapore, Slovenia, Spain, Sweden, Switzerland, Taiwan, Thailand, The Netherlands, Tunisia, Turkey, United Arab Emirates, United Kingdom, Ukraine, USA, Vietnam.

The submitted full-length papers went through a rigorous reviewing process: Each of the 633 submissions was reviewed by at least two program committee members, and the borderline cases were re-reviewed by additional program committee members and by chair(s). For WI'05 approximately 18% of 328 submissions were accepted as regular papers and 32% as short papers. For IAT'05 approximately 18% of 305 submissions were accepted as regular papers and 25% as short papers.

Additionally 25 papers were selected for the Demo track.

Any successful, high-quality conference would require enormous efforts and expertise of many committed people. Here, we would like to thank Organizing Chairs, Program Co-chairs, Industry Track Chairs, Workshop Chairs, Tutorial Chairs, Publicity Chairs, Local Arrangement Chairs, and all vice chairs and members of WI'05 and IAT'05 program committees as well as appointed reviewers for the countless hours they devoted to the conference organization and review activities. Special thanks go to IEEE-CS-TCCI Chair, ACM-SIGART Chair, WIC Advisory Board members, and WIC Technical Committee & WI/IAT Steering Committee members for their constant support.

The conference Web support team contributed greatly to our success by putting together and maintaining the homepages for WI'05 and IAT'05 as well as managing Web-based software used to run paper submission and review process.

We would like to express our special appreciation to our world-class keynote speakers:

Wray Buntine Helsinki Institute for Information Technology, Finland
Strona 5

Patrick Doherty Department of Computer and Information Science, Linköping University, Sweden
Nick Jennings University of Southampton, UK
Pat Langley Stanford University, USA
Henry Lieberman MIT Media Laboratory, USA
Peter Schuster Institut für Theoretische Chemie und Molekulare Strukturbiologie Wien, Austria
Robert Milne Managing Director, Sermatech Intelligent Applications, UK

We are very grateful to the following institutions:
French National Center for Scientific Research (CNRS)
Compiègne University of Technology
Laboratoire Heuristique et Diagnostic des Systemes Complexes
Institute of Electrical and Electronics Engineers (IEEE)
Hong Kong Baptist University (HKBU),
Maebashi Institute of Technology,
for their cooperation in preparations to WI'05 and IAT'05.

Last but not the least, we would like to thank all the authors of submitted papers and the attendees for their contribution and participation. Without their strong support, we could not have a successful conference.

Jiming Liu, Pierre Morizet-Mahoudeaux
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