

Title/Editors for IAT'05 Proceedings:  
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Proceedings of the IEEE/WIC/ACM International Conference  
on Intelligent Agent Technology (IAT 2005)

September 19-22, 2005  
Compiègne University of Technology, France

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Sponsored by  
IEEE Computer Society Technical Committee on Intelligent Informatics (TCII)  
Web Intelligence Consortium (WIC)  
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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 (IAT'05 and WI'05).  
On behalf of the IAT'05 and WI'05 Conference Committees, we would like to  
thank you for coming to IAT'05 and WI'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 IAT-99 held in Hong Kong in 1999, IAT-01 held in Maebashi City, Japan in  
2001,  
IAT-03 held in Halifax, Canada, and IAT-04 held in Beijing, China.

IAT 2005 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 2005 will  
foster the development of novel paradigms and advanced solutions in agent-based  
computing.

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

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Topics of IAT'05  
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Autonomy-Oriented Computing (AOC)

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

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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

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Agent-Based Assistants  
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

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Topics of WI'05  
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#### 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

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- 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

Continuing their strong presence among similar events IAT'05 and WI'05 managed to attract 633 submissions (305 for IAT'05 and 328 for WI'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 IAT'05 approximately 18% of 305 submissions were accepted as regular papers and 25% as short papers. For WI'05 approximately 18% of 328 submissions were accepted as regular papers and 32% 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 IAT'05 and WI'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  
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together and maintaining the homepages for IAT'05 and WI'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  
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Pat Langley Stanford University, USA  
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Robert Milne Managing Director, Sermatech Intelligent Applications, UK

We are very grateful to the following institutions:

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Compiègne University of Technology  
Laboratoire Heuristique et Diagnostic des Systèmes Complexes  
Institute of Electrical and Electronics Engineers (IEEE)  
Hong Kong Baptist University (HKBU),  
Maebashi Institute of Technology,  
for their cooperation in preparations to IAT'05 and WI'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  
IAT'05 and WI'05 Conference Chairs

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