

The **19th IEEE INTERNATIONAL CONFERENCE** on  
**TOOLS** with **ARTIFICIAL INTELLIGENCE**  
(ICTAI-2007)  
October 29-31, 2007  
Patras, Greece

Conference site: <http://ictai07.ceid.upatras.gr>

**1st CALL FOR PAPERS**

The annual IEEE International Conference on Tools with Artificial Intelligence (ICTAI) provides a major international forum where the creation and exchange of ideas related to artificial intelligence are fostered among academia, industry, and government agencies. The conference facilitates the cross-fertilization of these ideas and promotes their transfer into practical tools, for developing intelligent systems and pursuing artificial intelligence applications.

The ICTAI encompasses all the technical aspects of specifying, developing and evaluating the theoretical underpinnings and applied mechanisms of the AI based components of computer tools (i.e. algorithms, methodologies, architectures or languages).

**TOPICS OF INTEREST** include (but are not limited to) the following:

- AI Algorithms
- AI in Software Engineering
- AI in Bioinformatics
- AI in Games
- AI in Multimedia Systems
- AI in Real-time and Embedded Applications
- AI in E-commerce
- AI in Databases and Data Mining
- AI in Medicine
- AI in Computer Security and Information Assurance
- AI in Robotics
- AI in Logistics and Supply Chain Management
- Case-Based Reasoning
- Cognitive Modelling
- Constraint Programming
- Collaborative Software Agents
- Reasoning Under Fuzziness or Uncertainty
- Evolutionary Computing
- Hybrid Intelligent Systems
- Information Retrieval
- Intelligent Tutoring/Training Systems

Intelligent Internet Agents  
Intelligent Interface Agents  
Knowledge-based Systems  
Knowledge Discovery  
Knowledge Extraction  
Knowledge Management and Sharing  
Knowledge Representation and Reasoning  
Machine Learning  
Natural Language and Speech Processing and Understanding  
Neural Networks  
Planning and Scheduling  
Qualitative Reasoning  
Search and Heuristics  
Vision and Image Processing and Understanding.

The submissions should contain original, high quality, not submitted or published elsewhere work.

The accepted papers will be included in the ICTAI-07 proceedings published by the IEEE Computer Society. A selection of the best papers of the conference will be published in a special issue of the International Journal on Artificial Intelligence Tools (IJAIT) (SCI Indexed).

### **IMPORTANT DATES**

Papers submission: 1 June 2007  
Notification of acceptance: 15 July 2007  
Camera ready paper: 5 August 2007

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