



**The 18<sup>th</sup> IEEE INTERNATIONAL CONFERENCE on TOOLS with  
ARTIFICIAL INTELLIGENCE (ICTAI-2006), Washington, D.C.**  
November 13-15, 2006. <http://www.nvc.cs.vt.edu/ictai06>

The annual IEEE International Conference on Tools with Artificial Intelligence (ICTAI) provides a major international forum where the creation and exchange of ideas relating 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 AI tools. A selection of the best papers in the conference will be published in a special issue of the [International Journal on Artificial Intelligence Tools \(IJAIT\)](#).

**Some Topics but not limited to the following:**

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 Database 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 Modeling; Constraint Programming; Collaborative Software Agents; Fuzzy Logic and Reasoning Under Uncertainty; Evolutionary Computing; Hybrid Intelligent Systems; Intelligent Tutoring/Training Systems; Intelligent Internet Agents; Intelligent Interface Agents; Knowledge-based Systems; Knowledge Creation; Knowledge Discovery; Representation and Ontology; AI Algorithms; Intelligent Information Retrieval; Knowledge Extraction; Management and Sharing; Machine Learning; Natural Language Processing and Speech Understanding; Neural Networks; Search and Heuristics; Planning and Scheduling; Qualitative Reasoning; Vision and Image Processing.

**Important Dates:**

- **June 30, 2006**      **Deadline for paper submissions.**
- **August 21, 2006**      **Notification of acceptance.**
- **September 10, 2006**      **Final camera-ready paper & author registration due.**
- **November 13-15, 2006**      **ICTAI 2006 conference.**

**Submission guidelines:**

The manuscript should not exceed 8 single-spaced, double-column pages, including figures and tables. The font size should be at least 10 point. All paper submissions will be handled electronically through our online web submission system. The submission paper should be in PDF file format.

**General Chair:** Dr. A. Lim, The Hong Kong University of Science and Technology, Hong Kong.

**Co-Program Chairs:** Dr. Chang-Tien(C.T.) Lu, Dept. of Computer Science, Virginia Tech, National Capital Region, 7054 Haycock Road, Falls Church, Virginia 22043, USA, [ctlu@vt.edu](mailto:ctlu@vt.edu), and Dr. Nikolaos G.

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