

# 5<sup>th</sup> IFIP Conference on Artificial Intelligence Applications & Innovations (AIAI'2009) Thessaloniki, Greece, 23-25 April 2009

## ORGANIZING INSTITUTIONS



## AIMS AND SCOPE

The ever expanding abundance of information and computing power enables researchers and users to tackle highly interesting issues, such as applications providing personalized access and interactivity to multimodal information based on user preferences and semantic concepts or human-machine interface systems utilizing information on the affective state of the user. The general focus of the AIAI conference is to provide insights on how AI can be implemented in real world applications. Also, research papers describing advanced prototypes, innovative systems, tools and techniques are encouraged. General survey papers indicating future directions and professional work-in-progress reports are of equal interest. Acceptance will be based on quality, originality and the practical value of the work.

## NEW IMPORTANT DATES

Abstract submission:	27 <sup>th</sup> of October, 2008
Full Paper submission:	3 <sup>rd</sup> of November, 2008
Workshop Proposal submission:	3 <sup>rd</sup> of November, 2008
Tutorial Proposal submission:	3 <sup>rd</sup> of November, 2008
Notification of acceptance:	22 <sup>nd</sup> of December, 2008
Camera-ready copy due:	12 <sup>th</sup> of January, 2009
Conference dates:	April 23-25, 2009

## CALL FOR PAPERS

Authors are invited to submit electronically original, English-language research contributions or experience reports. Submitted papers must present *unpublished work*, not submitted to other journals or conferences for consideration of publication.

## SUBMISSIONS GUIDELINES

*Maximum length* is eight (8) pages, formatted according to Springer IFIP series instructions. Authors are strongly encouraged to use the correct document style from the Springer IFIP web site (<http://www.springer.com/series/6102>). The Program Committee may reject papers exceeding this length on the grounds of length alone. Authors are strongly encouraged to use the correct document style. This should be done for their initial submission, so that preparation of the final papers is simplified. A fully electronic review process by three academic reviewers is being planned for all the submitted papers. Full papers and workshop or tutorial proposals should be submitted electronically in postscript or pdf format.

Workshops proposals accepting original research papers (that have not been submitted elsewhere) on innovative, or otherwise provocative issues within the conference area are encouraged as well. Workshops should be held simultaneously with the 5<sup>th</sup> IFIP AIAI Conference. Proposals should include a 2-3 page summary of the topic plus the names and affiliations of program committee members and chairs. Also the chairs of the workshops should arrange the publication of accepted papers. Please contact A. Prof. N. Vasiliadis at [nbassili@csd.auth.gr](mailto:nbassili@csd.auth.gr) Proposals for 90-minute tutorials are also invited on topics within the conference area. Tutorial proposals must be at most 5 pages, they must identify the intended audience, and they must give enough material to provide a sense of what will be covered.

At least one author of each accepted paper is required to register and present the paper. Papers may not be included in the proceedings if the requirements are not met, or if the registration fee is not received by the camera ready deadline.

For further information related to the technical program and the tutorials, please contact the PC Chair at [liliadis@fmenr.duth.gr](mailto:liliadis@fmenr.duth.gr). For questions regarding the workshop proposals, please contact the Workshop Chair at [nbassili@csd.auth.gr](mailto:nbassili@csd.auth.gr). For other questions, please contact the Organizing Chair at [manolopo@csd.auth.gr](mailto:manolopo@csd.auth.gr).

## PROCEEDINGS and SPECIAL ISSUES

Accepted papers will be presented at the conference and published in the official IFIP conference proceedings by *Springer Academic Publishers*. Based on the reviewers' comments and on the presentation, and after a second peer review process, a number of selected papers will be published in a special issue of the [International Journal on Artificial Intelligence Tools](#) (IJAIT), World Scientific Publishing Co., Print ISSN: 0218-2130, Online ISSN: 1793-6349.

## INVITED SPEAKERS

- “Synergies of AI Methods for Robotic Planning & Grabbing, Facial Expressions Recognition, and Blind's Navigation”, **Dr. Nikolaos Bourbakis**, IEEE Fellow, Associate Dean for Research, Engineering College, OBR Distinguished Professor of IT, Director of the ATRC Center, Wright State University, Dayton, OH 45435
- “Neural Networks for Modal and Virtual Learning”,  
**Dr. Dominic Palmer Brown**, Professor of neural computing, School of Computing and Technology, Associate Dean, University of East London, UK

## TOPICS:

Suggested topics include, but are not limited to, the following:

### Applications or Theoretical Advances

Adaptive Control  
Artificial Neural Networks  
Data Fusion  
Expert Systems  
Fuzzy Logic and Systems  
Machine Learning  
Reasoning Methods  
Genetic Algorithms

### Knowledge Engineering

Data Mining & Information Retrieval  
Decision Support Systems  
Intelligent information systems for modeling  
Knowledge management for e-Learning & enterprise portals  
Ontologies and Semantic Web

### Signal Processing Techniques for Knowledge Extraction

Computer Vision  
Human-machine interaction / presence  
Learning and Adaptive Systems  
Pattern recognition  
Speech and natural language interfaces

### Multimedia and Artificial Intelligence

Multimedia computing  
Multimedia Ontologies  
Smart Graphics

Colour/Image Analysis

Speech Synthesis

### Trends in Computing

Accessibility & computers  
Affective computing  
Agent & Multi-Agent Systems  
Autonomous & ubiquitous computing  
Distributed AI Systems & Architectures  
Grid-based computing  
Profiling and personalization  
Robotics and virtual reality

### Artificial Intelligence Applications

AI in eBusiness/Commerce, eHealth, eLearning  
AI in Engineering and in Industry  
AI in Environmental Modeling  
AI in Finance  
AI in Telecommunications - Transportation  
AI in crisis and risk management  
AI in Medical Informatics & Biomedical Engineering  
AI in politics decision making

### Others

Evaluation of AI Systems  
Social impact and ethical issues of AI

## ORGANIZATION

### General Co-Chairs:

**Ioannis Vlahavas**, Aristotle University of Thessaloniki, Greece, [vlahavas@csd.auth.gr](mailto:vlahavas@csd.auth.gr)

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