

6TH IFIP CONFERENCE ON ARTIFICIAL INTELLIGENCE APPLICATIONS & INNOVATIONS (AIAI 2010)

AYIA NAPA, CYPRUS
5-7 OCTOBER 2010

ORGANISING INSTITUTIONS



AIMS AND SCOPE

The abundance of information and increase in computing power currently enables researchers to tackle highly complicated and challenging computational problems. Solutions to such problems are now feasible using advances and innovations from the area of Artificial Intelligence. The general focus of the AIAI 2010 conference is to provide insights on how Artificial Intelligence may be applied in real world situations and serve the study, analysis and modelling of theoretical and practical issues. 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 practical merit of the work.

IMPORTANT DATES

Abstract submission : 5 February 2010
Full Paper submission : 19 February 2010
Workshop Proposal submission : 19 February 2010
Tutorial Proposal submission : 19 February 2010
Notification of acceptance : 21 April 2010
Camera-ready copy due : 21 May 2010
Conference dates : 5-7 October 2010

CALL FOR PAPERS

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 Submitted papers must present unpublished work, not being considered for publication in other journals or conferences.

SUBMISSION GUIDELINES

Regular Papers and Workshop Papers: The maximum length permitted is eight (8) pages, formatted according to Springer IFIP series instructions. The Programme Committee may reject papers exceeding this length. Authors are strongly encouraged to use the correct document style from the Springer IFIP website (<http://www.springer.com/series/6102>). This should be done for their initial submission, so that preparation of the final papers will be simplified. A fully electronic review process by three academic reviewers is planned for all submitted papers.

Workshops: Workshop proposals comprising original research papers on innovative or otherwise provocative issues within the conference topic areas are also encouraged. Workshops should be held simultaneously with the 6th IFIP AIAI conference. Submitted proposals should include a 2-3 page summary of the topic, including the names and affiliations of Programme Committee members and chairs. Also, the chairs of the workshops should arrange the publication of accepted papers. For questions regarding workshop proposals, please contact the Workshop Chair, Nicos Mateou, at NMateou@mod.gov.cy

Tutorials: Proposals for 90-minute tutorials are also invited in areas within the conference's topics. Tutorial proposals must be 5 pages at most, identifying the intended audience and presenting enough material to provide a sense of what will be covered. For questions related to the tutorials please e-mail the Tutorials Chair, Tasos Sofokleous, at asofok@cs.ucy.ac.cy

Full papers and workshop or tutorial proposals should be submitted electronically in postscript, pdf or word format. At least one author of each accepted paper is required to register and present the paper. Papers shall not be included in the proceedings if these requirements are not met, nor if the registration fee is not received until the camera-ready deadline. For further information related to the technical programme or other details on the conference, please contact the Organising Chair, Harris Papadopoulos, at H.Papadopoulos@frederick.ac.cy.

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

< To be announced >

TOPICS

Theoretical Advances

- Machine Learning
- Adaptive Control
- Data Fusion
- Reasoning Methods
- Knowledge Acquisition and Representation
- Planning and Scheduling
- Artificial Neural Networks
- Expert Systems
- Fuzzy Logic and Systems
- Genetic Algorithms and Programming
- Particle Swarm Optimisation
- Bayesian Models

Knowledge Engineering

- Data Mining and Information Retrieval
- Decision Support Systems
- Knowledge Management for e-Learning and Enterprise Portals
- Intelligent Information Systems
- Web- and Knowledge-Based Information Systems
- Ontologies

Signal Processing Techniques and Knowledge Extraction

- Computer Vision
Human-Machine Interaction / Presence
Learning and Adaptive Systems
Pattern Recognition
- Signal and Image Processing
Speech and Natural Language Processing

Multimedia, Graphics and Artificial Intelligence

- Multimedia Computing
- Multimedia Ontologies
- Smart Graphics
- Colour/Image Analysis
- Speech Synthesis

Trends in Computing

- Accessibility and Computers
- Affective Computing
- Agent and Multi-Agent Systems
- Autonomous and Ubiquitous Computing
- Distributed AI Systems and Architectures
- Grid-Based Computing
- Intelligent Profiling and Personalisation
- Robotics and Virtual Reality

Artificial Intelligence Applications

- eBusiness, eCommerce, eHealth, eLearning
- Engineering and Industry
- Environmental Modelling
- Finance
- Telecommunications - Transportation
- Crisis and Risk Management
- Medical Informatics and Biomedical Engineering
- Political Decision Making
- Natural Language Processing
- Planning and Resource Management
- Project Management
- Emerging Applications
- Forensic Science

Other

- AI and Ethical Issues
- Evaluation of AI Systems
- Social Impact of AI

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