

Call for Papers

3rd Workshop on Artificial Intelligence Techniques for Ambient Intelligence (AITAmI'08) - Patras, Greece. 21-22 July 2008

Co-located event of ECAI 2008 (www.ece.upatras.gr/ecai2008/calls.htm)

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Background and Goals: Imagine a future where human environments respond to human preferences and needs. In this world, devices equipped with simple intelligence and the abilities to sense, communicate, and act will be unremarkable features of our world. We will *expect* the car to warn us of hazards, track our location and provide timely route advice. We will speak to simple machines and hold conversations with more complex systems, such as intelligent homes that will help us monitor conditions, track routine tasks, and program the behaviour of the heat, the lights, the garden watering and the entertainment centre. Analogous systems at work will make simple decisions in our stead ranging from scheduling meetings to negotiating for common services over the web. Such systems will also acquire, and adapt to our preferences over time. In sum, we will come to view simple software intelligence as an ambient feature of our environment.

The infrastructure for ambient intelligence is fast coming on line. Computational resources are cheap and becoming cheaper, while ubiquitous network access has started to appear. Market forces will soon produce applications. We take the view that ambient intelligence is imminent and inevitable, and that the time is ripe to take stock. This workshop will provide that opportunity by gathering researchers in a variety of AI subfields together with representatives of commercial interests to explore the technology and applications for ambient intelligence.

This workshop will complement related events, such as the *International Conference on Smart Homes and Telecare*, and the *European Conference on Ambient Intelligence*. This workshop differs in that it will focus on the special relevance of Artificial Intelligence techniques to the goals of Ambient Intelligence, and on the most likely avenues for practical application. *AITAmI'08* will provide an open forum based on a variety of presentations: research papers, keynotes, panels and industrial demos. This event will build up on the topics discussed during the two previous successful editions: *AITAmI'06* held during ECAI'06 and *AITAmI'07* held during IJCAI'07.

Important Dates:

April 10th: submission deadline
May 10th: notification of evaluation
May 24th: camera ready submission

Web page:

www.infj.ulst.ac.uk/~jcaug/aitami08.htm

Sponsors: This event is sponsored by the following companies:

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Attendance: The workshop is open to all members of the ECAI community but the number of participants will be restricted by the room size. Preference will be given to participants which have an accepted paper and the rest of the participants will be selected according to background and order of registration.

Invited Speakers: As in previous editions of this event distinguished speakers will share their experiences and provide their insights on the current trends of the field.

Organization: this event will be Co-located with the 18th European Conference in Artificial Intelligence, *ECAI 2008*:

www.ece.upatras.gr/ecai2008/calls.htm

Areas of interest: include, but are not limited to, the following:

<ul style="list-style-type: none">- agent-based approach to AmI- interaction with autonomous systems- individual/group emotional status- individual/group preferences- mediating conflicting interests- intelligent interactive systems- multi-modal interfaces (voice, image and video, bio-signals, handwriting, etc.)- modelling complex environments (smart homes, hospitals, museums, transportation, classrooms, etc.)	<ul style="list-style-type: none">- non invasive sensing and interaction- context awareness- cognitive modelling of users- applications (health, industry, teaching, supporting group collaboration, etc.)- innovative applications of AI to Ambient Intelligence- responsive/active architecture- traditional relevant areas of AI (KR, reasoning about actions, spatio-temporal reasoning, CBR, planning, uncertainty, learning, belief revision, vision, decision-making, etc.)
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Special Session: this edition will have a session devoted to the use of networks of video cameras as intelligent sensors. Contact the chair of the session: Dr. H. Aghajan (U. of Stanford, USA): aghajan 'at' stanford.edu.

Submission Details: Authors wishing to participate as speakers in this event should format their papers following the same formatting guidelines than for the main conference:

<http://www.ece.upatras.gr/ecai2008/substyles.htm>

More details of the submission process will be given in the web page of the event.

Publications: all papers accepted will be published in the proceedings of the event. Related post-workshop publications will be pursued.

Ph.D. Grants: The organizers of this event will offer partial funding to Ph.D. students with accepted papers at our event. The quality of the submission and the financial situation of the student will be part of the selection criteria.