

Journal of Ambient Intelligence and Smart Environments (JAISE)

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Thematic Issue: Agents in Ambient Intelligence and Smart environments

Background

This thematic issue addresses the use of intelligent agents in Ambient Intelligence and smart environments and solicits contributions on recent developments and experiments with such paradigm in simulated smart environments as well as successful deployments in the real world.

Agents embody artificial intelligence techniques, which provide them with useful skills, like reasoning, learning capabilities, or coordination techniques. This contributes to augment the diversity of areas where agents may be applied in the context of Aml and smart environments. Agents and multi-agent systems may be used to design human-like agents, to develop intelligent and autonomous software modules, and to represent complex systems where the collaboration and coordination is mandatory.

Currently, we may say that one of the aims of ambient intelligence and smart environments is to fulfill users' needs in an unobtrusive way. To achieve this goal, it is important to be able to model the behavior of the users, to perform an effective prediction of their intentions, to reason based on imprecise and incomplete information, and also to coordinate the interaction between the different players involved in a complex environment. There is an interesting connection between these issues and the capabilities that agent technology provides. Agents are a way to model, simulate, and represent several entities involved in the creation of ambient intelligence and smart environments. Consequently, agents and multi-agents paradigm arise as a suitable and effective approach to the modeling, design and engineering of Ambient Intelligence systems. Expecting to advance the research in this line, we look for contributions that illustrate the impact of agent technology into AmI and Smart Environments. Bellow some specific relevant topics to be considered, but not exclusively are:

- Smart offices
- Smart home automation
- Smart schools
- Intelligent web applications
- Mobile applications for smartphones
- Intelligent interfaces
- Intention recognition

- Decision making
- · Behavior modeling
- Agent architectures
- · Conflict resolution
- Multi-agent negotiation
- Learning methods
- Cognitive and emotional awareness
- Intelligent personalization and recommender systems
- Ambient assisted living
- Intelligent transportation systems
- Smart healthcare
- Smart surveillance and tracking
- · Context awareness
- Smart energy systems
- Mobile and wearable intelligence

Submissions that use experimental data derived from real or simulated test-beds of smart applications and intelligent environments are especially encouraged.

We are pleased to inform you that <u>JAISE</u> is indexed by JCR (IF=1.5), SCI-Expanded, SciVerse Scopus, DBLP, ACM DL, Compendex, and others.

Submission and Proceedings

Papers should be of 12 pages or longer and adhere to the guidelines given on the webpage:

http://www.mstracker.com/submit1.php?jc=jaise

This page has to be used as well for submission. When submitting, authors should highlight in the cover letter that the submission is for this particular Thematic Issue. Prospective authors are encouraged to contact the special issue editors in advance, indicating their interest and a tentative title of the paper.

Important Dates and Dissemination Plan

Deadline for manuscript submission: September 15th, 2012

Notification to authors: November 30th, 2012

Submission of revised versions: February 1st, 2013

Submission of final versions March 1st, 2013

Targeted publication date: May 2013

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