



The Ubiquitous Computing (UC) idea envisioned by Weiser in 1991, has recently evolved to a more general paradigm known as Ambient Intelligence (AmI). Ambient Intelligence then represents a new generation of user-centred computing environments aiming to find new ways to obtain a better integration of the information technology in everyday life devices and activities. AmI environments are integrated by several autonomous computational devices of modern life ranging from consumer electronics to mobile phones. Ideally, people in an AmI environment will not notice these devices, but they will benefit from the services they provide them. Such devices are aware of the people present in those environments by reacting to their gestures, actions and context. Recently the interest in Ambient Intelligence Environments has grown considerably due to new challenges posed by society, demanding highly innovative services such as vehicular ad hoc networks (VANET), Ambient Assisted Living (AAL), e-Health, Internet of Things and Home Automation among others.

The main goal of this conference is to provide a discussion forum where researchers and practitioners on Ubiquitous Computing and Ambient Intelligence can meet, disseminate and exchange ideas and problems, identify some of the key issues related to these topics, and explore together possible solutions and future works.

#### TOPICS:

Both academia and industry are invited to submit papers about any of the following topics of interest:

- Integrating lightweight and/or mobile devices in AmI environments (telephones, RFID, consumer electronics, sensors, smart devices, etc.)
- Mobile Ad Hoc Networks support for AmI environments for wireless sensor networks (WSNs), MANETs, VANETs, etc., (architectures, protocols, etc.)
- Sensing location and context awareness (context modelling, adaptation, sentient computing, etc.)
- Human-Centric Interfaces for AmI environments Middleware support for AmI and ubiquitous computing environments (WSNs, MANET, VANETS, RFID, etc.)
- Artificial intelligence approaches (agents, affective computing, ontologies, semantic reasoning, etc.)
- Applications for AmI environments (e-learning, e-health, Home Automation, e-payment, ticketing, etc.)
- Specific services for AmI (service discovery, security, data delivery, coordination, etc.)
- Communication and radio technologies (NFC, Bluetooth, etc.)
- Quality attributes in AmI applications (real-time, quality of service, fault-tolerance, etc.)
- Software technologies for AmI (frameworks, components, aspect-orientation, service-orientation, software product line, etc.)

#### SUBMISSION FORMAT AND PROCEDURE:

Types of submissions:

1. Long Paper. A maximum length of 10 pages. They must consist of original, relevant and previously unpublished sound research results related to any of the topics of the symposium.
2. Short paper. A maximum length of 5 pages (for example, a project report, a summary of a PhD thesis, or work in progress).
3. Doctoral Consortium. PhD students are invited to present the topic and progress of their research, in order to obtain feedback from a panel of experts. The length of these papers should be no longer than 8 pages.

All submissions will be refereed by experts in the field based on originality, significance, quality and clarity. Every submitted paper to UCAmI'10 will be reviewed by at least two members of the Scientific Committee.

The conference papers will be published as part of the CEDI proceedings (with ISBN). Selected papers from the conference will be published in a special theme of the Personal and Ubiquitous Computing journal, indexed in the Journal Citation Reports (<http://www.facebook.com/notes/personal-and-ubiquitous-computing/ubiquitous-computing-ambient-intelligence-2010/158424205457>).

#### Important Dates:

Paper submission: **April 18, 2010**  
 Notification of acceptance: **May 17, 2010**  
 Camera-ready version: **May 27, 2010**  
 Conference dates: **September 7-10, 2010**

#### CONFERENCE ORGANIZERS:

- General Chair, José Bravo, University of Castilla-La Mancha (Spain)
- Program Chair, Lidia Fuentes, University of Málaga (Spain)
- Web master, Nadia Gámez, University of Málaga (Spain)

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