

September, 22-26 2009, Palma de Mallorca, Spain

Call for Papers / Invitation to Special Session SS06

BUILDING AUTOMATION AND SMART HOMES

Special Session co-Chairs

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Sponsored by: Technical University of Catalonia (UPC), University of Balearic Islands (UIB), Spain and IEEE Industrial Electronics Society

Building Automation and Smart Homes are rapidly developing automation topics. Established industrial and academic research and engineering is focused on important base topics like fieldbus technologies, commissioning, and applications mainly in the area of heating, ventilation and airconditioning, and lighting/shading in huge buildings. Currently, exciting new topics and possibilities are emerging: An important trend is the increasing deployment of automation systems in the residential sector and private homes. Also in these sectors there is a rising relevance of topics like integration, engineering effort, energy efficiency, comfort, security and safety. The fusion of traditional fieldbuses and Internet technologies on various layers is important for both, the commercial and the residential sector. On a more abstract level, both sectors ask for new solutions in areas such as assisted living and health monitoring. New services evolve. These demands from the application side are new challenges in the automation field. Solutions typically merge traditional sensor and automation approaches with modern usability and network aspects derived from work in disciplines like the Internet of Things, ambient intelligence, or ubiquitous and pervasive computing, to name but some of them.

Contributions to the session may address, but are not limited to:

- Applications: energy efficiency, security, safety, assistance, health, comfort, metering and control, ...
- Ambient intelligence, awareness, artificial intelligence in buildings
- Ambient Assisted Living (AAL)
- Fusion, for example between automation, multimedia, and the Internet
- High level network architectures, multimedia networks

- User interfaces and user interaction
- Middleware for protocol translation, (Web based) management, multimedia
- Network and service integration
- Internet protocol deployment
- Security, privacy and safety in Building Automation Systems
- Wireless sensors and sensor networks
- Device localization, guidance systems
- Building Information Modeling (BIM)
- Operation and maintenance, commissioning
- Fieldbus technologies

SUBMISSION OF PAPERS

Papers are to be submitted electronically. For further details, please consult the conference web pages.

AUTHOR'S SCHEDULE

Deadline for submission of papers:	May 10, 2009
Notification of papers acceptance:	June 8, 2009
Final manuscripts due:	July 5, 2009

SESSION ORGANIZERS

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