

ETFA2008_SS_06

Invitation to the Special Session on Building and Home Automation

**at the 13th IEEE International Conference on Emerging Technologies and
Factory Automation**

September 15-18, 2008, Hamburg/ Germany
Conference web site: <http://www.etfa2008.org>

Building and Home Automation is a rapidly developing automation topic. Established industrial and academic research and engineering is focused on important base topics like fieldbus technologies, reliability, classical commissioning, and applications mainly in the area of heating, ventilation and air-conditioning in huge buildings. Currently, also 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 energy efficiency, comfort, and security. The fusion of traditional fieldbus technologies and internet technologies on various layers is an important topic for both, the commercial and the home sector. On a more abstract level, both sectors ask for solutions for example in the area of assisted living and health monitoring. 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 computing, to name but some of them.

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

- Applications: energy efficiency, security, assistance, health, comfort, metering and control, ...
- Ambient intelligence, smart home
- Fusion for example between automation, multimedia, and the internet
- High level network architectures, multimedia networks
- User interfaces and user interaction
- Middleware for protocol translation, management, multimedia
- Network and service integration
- Internet protocol deployment
- Wireless sensors, sensor networks, device localization
- Operation and maintenance, commissioning
- Fieldbus technologies

Authors' Schedule:

Authors should contact the Special Session Organizers as soon as possible

Deadline for submission: **April 30, 2008**

Notification of papers acceptance: **June 1, 2008**

Final manuscripts due: **July 1, 2008**

Submission of Papers:

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

Session Organizers:

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