



Call for Papers

Journal of Systems Architecture

Special Issue on

EMERGING APPLICATIONS OF EMBEDDED SYSTEMS RESEARCH

General Scope

Embedded computing has become a necessity in almost every aspect of the daily lives of individuals and organizations, from self-contained systems to those embedded in various devices and services. Applications of such systems range from key industry sectors including transportation (automobiles, smart highways, mass transportation and infrastructure, avionics, aviation, airspace management), large-scale critical infrastructures (structures such as buildings and bridges, human environments, the power grid), defense systems, health care (medical devices and health management networks), tele-physical operations (e.g., tele-medicine), consumer electronics (video games, audio/video processing, and mobile communication devices), etc.

This special issue is dedicated to applications whose usefulness or originality are differentiating features with respect to other existing ones, and in which the use of an embedded system is the key to its viability, or add value on nowadays deployed applications.

We invite papers presenting a high quality original research and development on innovative applications of embedded systems, including contributions associated with systems that are actually deployed in commercial industry, defense, or other production environments, like automotive, avionics, telecommunications, industrial control, aerospace, consumer electronics, and sensors.

Topics

- Intelligent vehicles, traffic management and smart highways
- e-Health, welfare and ambient assisted living
- Biomedical applications
- Wearable computing
- Augmented reality
- Context aware interfaces and applications
- Ubiquitous computing
- Wireless sensor networks
- Intelligent industrial automation
- Security, surveillance and biometric authentication
- Cloud computing
- Large-scale critical infrastructures (such as buildings and bridges)
- Indoor and outdoor localization and tracking
- Green computing
- And new challenges for next generation applications related to communications, multimedia and entertainment, control, education, consumer electronics, robotics, domotics, defense and aerospace systems, etc.

Submission Information

All manuscripts and any supplementary material should be submitted via the online submission and peer review systems at <http://ees.elsevier.com/jsa>. Follow the submission instructions given on this site. Please select the article type as "**Special Issue: Embedded Systems Applications**". All manuscripts should comply with the journal's Guide for Authors. Please refer to the following site: http://www.elsevier.com/wps/find/journaldescription.cws_home/505616/authorinstructions/.

Important Dates

Submission Deadline: 1 Nov 2010

Acceptation Notification: 7 Feb 2011

Final Papers: 7 March 2011

Publication: Summer of 2011 (subject to JSA editorial calendar)

JSA Editor-in-Chief

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