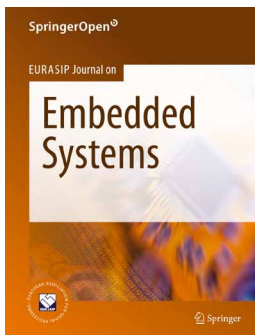


# EURASIP Journal on Embedded Systems

**Special Issue on  
RFID and near field communications  
in embedded systems**

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This special issue of the EURASIP Journal of Embedded Systems is intended to present recent developments in near field communications and in particular RFID technology. After maturing for a decade of years RFID technologies have found numerous applications in as diverse areas as e-commerce, logistics, social networking, area body networks, automation and many more. While many techniques rely on passive tags, others use energy harvesting and alternative energy sources to make them available even if not enough energy is present. With every improvement in data rate, storage capacity, HW complexity, energy consumption, and operating range, the potential range of applications increases even further. Due to its low requirements and small size, RFID technology is expected to be an “invisible” technology that will influence our life substantially.

This special issue is devoted to improvements of near field technology in general and RFID technology in particular. We like to favour the following fields related to embedded systems:

- ▶ Modeling, Simulation and Performance in RFID
- ▶ Ambient intelligence based on RFID labeling
- ▶ Standards and communication protocols
- ▶ Implementation issues
- ▶ Software issues
- ▶ Modulation schemes for RFID
- ▶ Multi-frequency and broadband tags
- ▶ Near field communications
- ▶ Energy management
- ▶ Smart and programmable tags
- ▶ Sensor networks with RFID
- ▶ Internet of things
- ▶ Security issues
- ▶ Protocols
- ▶ Manufacturing processes for RFID tags
- ▶ Middleware design
- ▶ Applications and industrial experience
- ▶ Electromagnetic field measurements
- ▶ Antenna Design
- ▶ Inductive coupling for DC supply
- ▶ Deployment techniques

This special issue is open to all contributions. Authors are invited to submit their papers addressing embedded systems technologies.

### Submission Schedule

► **Manuscript Due:**

**November 1, 2012**

► **First Round of Reviews:**

**February 1, 2013**

### Submission Instructions:

Before submission authors should carefully read over the Instructions for Authors, which are located at [jes.eurasipjournals.com/authors/instructions](http://jes.eurasipjournals.com/authors/instructions). Prospective authors should submit an electronic copy of their complete manuscript through the SpringerOpen submission system [jes.eurasipjournals.com/manuscript](http://jes.eurasipjournals.com/manuscript) according to the submission schedule. They should choose the correct Special Issue in the “sections” box upon submitting. In addition, they should specify the manuscript as a submission to the “RFID and near field communications in embedded systems” in the cover letter. All submissions will undergo initial screening by the Guest Editors for fit to the theme of the Special Issue and prospects for successfully negotiating the review process.

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