

## Emerging Technologies for Practical Ubiquitous and Sensor Networks

The IEICE (Institute of Electronics, Information and Communication Engineers) Transactions on Communications announces a forthcoming special section on Emerging Technologies for Practical Ubiquitous and Sensor Networks to be published in **November 2008**.

Ubiquitous and sensor networks are expected to be innovative technologies to provide attractive applications in the upcoming ubiquitous or pervasive computing era. Although a variety of new technologies are proposed, most of the challenges are still on the research phase and killer applications are unclear. Therefore, it is the time that we researchers and developers discuss how our research results can be applied to practical systems and applications.

The purpose of this special section is to offer an opportunity to present a wide variety of emerging technologies for ubiquitous and sensor networks, ranging from the fundamental theories and the component technologies to the platforms. Your contribution to this special section would be greatly appreciated.

### 1. Scope

Suggested topics include but are not limited to the following areas concerning practical ubiquitous and sensor networks:

**Fundamental Theories:** Information theory, Communication theory, Signal processing, Control theory, Distributed information processing and control, etc.

**Component Technologies:** Information fusion, Data mining, Databases, Network topology, Resource management, Protocol design, Sensor localization, RF tags, Security and privacy protection, Context-aware technology, Auto-configuration, Mobility support, etc.

**Platforms:** Devices and appliances, RFID, Power-saving devices, Optimal design for low-EMI, Compact devices, System control and management, Key software technology, Middleware, Smart space, etc.

**Applications:** Disaster relief, Entertainment, Environmental measurement, Automatic system control, Living support, Medical support, Context-aware applications, Location-aware applications, Real-world oriented applications, Robots, etc.

### 2. Submission Instructions

The deadline for submission is **February 22, 2008 (JST)**. Manuscript should be prepared according to the guideline given in the "Information for Authors". The latest version of it is available at the web site, [http://www.ieice.org/eng/shiori/mokuji\\_cs.html](http://www.ieice.org/eng/shiori/mokuji_cs.html), or you can refer its brief summary attached to IEICE Transactions. The length of the paper should not exceed 8 printed pages in principle. The term for revising the manuscript after acknowledgement of conditional acceptance for this special section could be shorter than that for other issues (60 days) because of the tight review schedule. In this special section, only the electric submission is adopted. Prospective authors are requested to follow carefully the submission process described below.

1. Submit papers using the IEICE Web site [https://review.ieice.org/regist\\_e.aspx](https://review.ieice.org/regist_e.aspx). Authors should choose the [Special-EB] Emerging Technologies for Practical Ubiquitous and Sensor Networks as a "Type of Issue/Category of Transactions" on the online screen. Do not choose [Regular-EB] Communications or other special sections.

2. "Copyright Transfer and Page charge Agreement" and "Confirmation Sheet of Manuscript Registration" must be sent by postal mail to the following address. Please mark "Special section on Emerging Technologies for Practical Ubiquitous Sensor Networks" on the envelope. We cannot start the review process without them, even if we receive the manuscript.

3. Please note that editorial committee will strictly keep the deadline for paper submission.

### 3. Special Section Editorial Committee

Guest Editor-in-Chief: Masayoshi Ohashi (KDDI Lab)

Guest Editors: Masateru Minami (Shibaura Institute of Technology),  
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\*Please note that if accepted for publication, all authors, including authors of invited papers, should pay for the page charges covering partial cost of publication. Authors will receive 50 copies of the reprint.

\*At least one of the authors must be an IEICE member when the manuscript is submitted for review.

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