Call for Papers
--- Special Section on Sensing, Wireless Networking, Data Collection, Analysis and Processing Technologies for Ambient Intelligence with Internet of Things ---

The IEICE Transactions on Communications announces that it will publish a special section entitled "Special Section on Sensing, Wireless Networking, Data Collection, Analysis and Processing Technologies for Ambient Intelligence with Internet of Things" in the April 2019 issue.

In the Internet of Things (IoT) era, sensor networks gather ambient information from peoples, products, and sensing devices for real space. The sensed data is processed, analyzed, and applied for enhancement or assistance for human activities, which is called ambient intelligence. Sophisticated social environments such as efficient electric power usage in smart grids, effective transportation systems, smart agriculture and big data analytics based on sensed data will be established through the ambient intelligence. Ambient intelligence can offer the convenience that before does not have and a radical cost cut by fusing the technologies of various fields. Fundamental researches have been promoted in the field of technologies supporting the ambient intelligence. Toward future generation, it is important to develop such sensing, wireless networking, data collection, analysis and progressing technologies for ambient intelligence. From the above points of view, the special section is planned (scheduled to appear in the April 2019 issue) to publish papers on the related fields.

1. Scope
The scope of this special section includes not only sensing, wireless networking, data collection, analysis and processing technologies but also their multidisciplinary researches for ambient intelligence. Possible topics include, but are not limited to:
- Space sensing, vital sensing, mobile sensing, participatory sensing, cloud sensing ambient interface, device and appliance technologies, embedded software, sensing and control theory, long distance communication, 5G, millimeter wave communication, near field radio communication
- MAC/routing protocols, multi-hop, full-duplex and cooperative communication, QoS control, cross layer design, energy harvesting, green wireless, communication and network theory
- Sensor database, context extraction, mining, location-information technology, stream processing, privacy and security, big data, learning signal processing
- Large scale widening, dependability, IoT, M2M, D2D, cyber physical, operation management, autonomous distributed control

2. Submission Instructions
The standard number of pages is 8. The page charges are considerably higher for extra pages. Manuscripts should be prepared according to the guideline in the "Information for Authors." The latest version is available at the web site, http://www.ieice.org/eng/shiori/mokuji_cs.html. The term for revising the manuscript after acknowledgement of conditional acceptance for this special section could be shorter than that for regular issues (60 days) because of the tight review schedule.

This special section will accept papers only by electronic submission. Submit a manuscript and electronic source files (LaTeX/Word files, figures, authors' photos and biographies) via the IEICE Web site https://review.ieice.org/regist/regist_baseinfo_e.aspx by May 11, 2018 (JST). Authors should choose the Special Section on Sensing, Wireless Networking, Data Collection, Analysis and Processing Technologies for Ambient Intelligence with Internet of Things as a "Journal/Section" on the online screen. Do not choose [Regular EB].

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