

Call for Papers

----- Special Section on IoT Sensor Networks and Mobile Intelligence -----

The IEICE Transactions on Communications announces that it will publish a special section entitled "Special Section on IoT Sensor Networks and Mobile Intelligence" in the **December 2020** issue.

In addition to ubiquitous sensor networks and mobile networks that support the Internet of Things (IoT) era, the research and development area of "mobile sensors" is growing. In detail, in addition to research and development on sensor technologies, mobility technologies, including connected cars, unmanned aerial vehicle (UAV), wearable technologies, and robots, and mobile ubiquitous computing that extracting valuable knowledge from collected sensor data are growing. Also, applications related to the ambient intelligence cooperated with sensing, mobility, and computing technologies through networking technology are important. Thus, research has been promoted to develop fundamental technologies including sensing, wireless networking, data analysis, and processing technologies as well as industrial applications that support ambient intelligence. The technical committee on Ambient Intelligence and Sensor Networks (ASN) and the technical committee on Mobile Network and Applications (MoNA), the predecessor of the technical committee on Sensor Networks and Mobile Intelligence (SeMI), planned symposium on "Ambient Intelligence and Sensor Networks Supporting Smart Mobility: Cars and Drone as Mobility in the IoT Era" in 2017 and symposium on "Sensor Networks and Mobile Intelligence Supporting Smart Society" to create new technologies and promote research activities in various application fields.

Because of such reasons, a special section is being planned (scheduled to appear in the December 2020 issue) to further promote research and development of the ambient intelligence with sensor networks and mobile sensors that support the IoT era.

1. Scope

This special section aims at timely dissemination of research in these areas. Possible topics include, but are not limited to:

- [Sensing] Mobile sensing/sensor, sensing device, embedded device, image and acoustic sensing, environment sensing, vital sensing, power/energy saving, battery-less, energy harvesting
- [Mobility] Connected car, drone, wearable, mobility management, robots, automated driving/driver assist technology, mobile security, behavior recognition, estimation, prediction, and control
- [Mobile/ubiquitous computing] Edge/fog/cloud, machine learning, sensor fusion, database, cyber physical and intelligent environment, swarm intelligence, sensor and mobile data analysis/processing
- [Sensor/adhoc/mobile networks] IoT/IoE, network virtualization, M2M/D2D, V2V/V2I/V2X, content delivery network, software defined networks, information/content centric network, architecture and protocols
- [Applications] Smart mobility/ITS, VR/AR/game, people-flow analysis/control, medical/healthcare/sports/education assist, smart city, smart house, smart factory, disaster prevention and reduction, construction/agriculture/forestry/fisheries assist

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 **January 10, 2020 (JST)**. Authors should choose the Special Section on IoT Sensor Networks and Mobile Intelligence as a "Journal/Section" on the online screen. Do not choose [Regular EB].

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3. Special Section Editorial Committee

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