

— Special Section on Network Resource Control and Management for IoT Services and Applications —

The IEICE Transactions on Communications announces that it will publish a special section entitled "Special Section on Network Resource Control and Management for IoT Services and Applications" in March 2018.

With the spread of Internet of Things (IoT) services and applications, the amount of traffic transmitted in several kinds of networks increases significantly and the traffic pattern also becomes more diversified than ever. For accommodating and processing such traffic, which is different from the existing traffic, it is indispensable to utilize an appropriate network resource control and management in several kinds of environments such as wireless access networks, wireless core networks, substrate networks, and cloud. Moreover, with the increase of battery-powered IoT devices, new control and management technologies that satisfy widespread requirements are expected in order to reduce the power consumption of the IoT devices and to decrease not only the processing load on the IoT devices but also the traffic load significantly. In addition, such new technologies must satisfy the requirements such that a huge number of IoT devices should be operated at low cost and with high efficiency, a huge amount of data should be processed at high speed and with high efficiency, and IoT services and applications should be developed in a safe and secure manner. Theoretical performance analysis, simulation/emulation experiments, and experimental evaluations are also important to deploy the technologies suitable for various IoT services and applications.

In order to further promote the above-mentioned researches for IoT services and applications, we thus call for publications (scheduled to appear in the March 2018 issue) to promote discussion and development of network resource control and management technologies including SDN, NFV, mobile edge computing (MEC), M2M/D2D, DTN, ICN/CCN, wireless network technologies, optical network technologies, LAA, cloud network, and so on. This special section solicits not only the standard regular papers but also position papers describing innovative ideas.

1. Scope

The scope of this special section includes, but is not limited to, the following topics:

- Software-defined networking (SDN)
- Mobile edge computing (MEC)
- Device-to-Device (D2D)
- Network resource control
- Data center networking
- Mobile networks
- Security / Privacy
- Device management
- Network function virtualization (NFV)
- Information/content centric networking (ICN/CCN)
- Delay/disruption/disaster tolerant networks (DTN)
- Network resource management
- Optical network architecture
- Wireless sensor networks
- Inter-cloud networking
- Data offloading
- Network virtualization
- Machine-to-Machine (M2M)
- License Assisted Access (LAA)
- Fog computing
- Overlay networking
- Environment monitoring networks
- RFID networking
- Performance analysis

2. Submission Instructions

The standard number of pages is 8 for a PAPER and 4 for a POSITION PAPER. 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 **27th March 2017** (JST). Authors should choose the "Network Resource Control and Management for IoT Services and Applications" 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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