──Special Section on Network Resource Control and Management
Technologies for Sustainable Social Information Infrastructure──

The IEICE Transactions on Communications announces that it will publish a special section entitled "Special Section on Network Resource Control and Management Technologies for Sustainable Social Information Infrastructure" in the April 2020 issue.

To realize the "Industry, innovation and infrastructure" and "Sustainable cities and communities" adopted as the parts of the SDGs (Sustainable Development Goals), the achievement of "Society 5.0" concept, which brings us the broad range of innovations resulting from the data-driven cooperation between various services and industries, is essential. For this achievement, since the amount of traffic transmitted in several kinds of networks increases significantly and the traffic pattern also becomes more diversified than ever, it is indispensable to build up a new sustainable social information infrastructure network that can accommodate such huge and diversified traffic, while providing the flexibility, the robustness, and the intelligence for dealing with all kinds of situation. Therefore, emerging new network resource control and management technologies that can utilize in the wide range of environments such as wireless access networks, wireless core networks, substrate networks, and cloud networks, are expected. Theoretical performance analysis, simulation/emulation experiments, and experimental evaluations are also important to deploy the promising technologies for sustainable social information infrastructure.

Besides, in welcoming the 2020 Tokyo Olympic and Paralympic, a special section is being planned (scheduled to appear in the April 2020 issue) to further promote the above-mentioned researches and technologies for sustainable social information infrastructure. We thus call publications to discuss and develop the network resource control and management technologies including not only the emerging technical fields such as AI/Machine-Learning, IoT/IoE (IoX), 5G, Mobile Edge/Fog Computing, network virtualization/softwarelization/programmability, optical transport network, wireless access/core network, and infrastructure/cloud network, but also the promising application fields such as big data, cooperation in different fields, and utilization of data.

1. Scope

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

- ・Artificial Intelligence (AI)
- ・5th Generation (5G)
- ・Network Function Virtualization (NFV)
- ・Network Slicing
- ・Energy-Efficient/Green Network
- ・Big Data
- ・Wireless Access/Core Network
- ・Optical Network Architecture
- ・Network Resource Management
- ・Machine Learning (ML)
- ・Fog Computing
- ・Network Programmability
- ・Network Softwarization
- ・Fixed Mobile Convergence (FMC)
- ・Data Utilization
- ・Network Infrastructure
- ・Mobile Networks
- ・Network Resource Control
- ・Internet of Things/Everything (IoT/IoE : IoX)
- ・Multi/Mobile Edge Computing (MEC)
- ・Software-Defined-Network (SDN)
- ・Microservice Architecture/API
- ・Information/Content Centric Networking (ICN/CCN)
- ・Cross Field Cooperation
- ・Cloud Networking
- ・Security/Privacy
- ・Performance Analysis/Simulation/Experiment

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 13th May 2019 (JST). Authors should choose the "Network Resource Control and Management Technologies for Sustainable Social Information Infrastructure" as a "Journal/Section" on the online screen. Do not choose [Regular EB].

Contact point :

Kazuya Tsukamoto

Department of Computer Science and Electronics, Kyushu Institute of Technology

Tel : +81-948-29-7652, E-mail：ns-ss2019-kanji@mail.ieice.org

3. Special Section Editorial Committee

Guest Editor-in-Chief : Yoshikatsu Okazaki (NTT)

Guest Editors : Yosuke Tanigawa (Osaka Pref. Univ.), Kazuya Tsukamoto (Kyushu Inst. of Tech.)

Guest Associate Editors : Kenichi Kashibuchi (NTT), Kazuhiko Kinoshita (Tokushima Univ.), Nattapong Kitsuwan (UEC), Tomonori Maegawa (Toshiba), Masahiro Sasabe (NAIST), Yuya Tarutani (Osaka Univ.), Toyoki Ue (Panasonic), Norio Yamagaki (NEC), Hiroshi Yamamoto (Ritsumeikan Univ.), Taku Yamazaki (Shibaura Inst. of Tech.)

＊Authors must agree to the "Copyright Transfer and Page Charge Agreement" via electronic submission.

＊Upon accepted for publication, all authors, including authors of invited papers, should pay the page charges covering the partial cost of publication around October 2019. For detailed information, please visit http://www. ieice.org/eng/shiori/page2_cs.html#5

＊At least one of the authors must be an IEICE member when the manuscript is submitted for review. Invited papers are an exception. We recommend that authors unaffiliated with IEICE apply for membership. For membership applications, please visit

http://www.ieice.org/eng/member/OM-appli.html

＊The accepted papers will be published online soon on the web site of Transactions Online after the payment of page charges has been completed. For detailed information, please visit http://www.ieice.org/eng/shiori/page2_cs. html#8