

Call for Papers

----- Special Section on Information and Communication Technology for Medical, Healthcare and Welfare Applications in Conjunction with Main Topics of ISMICT 2020 -----

The IEICE Transactions on Communications announces that it will publish a special section entitled " ICT for Medical, Healthcare and Welfare Applications in Conjunction with Main Topics of ISMICT 2020" in **June 2021**.

With the evolution of technologies and platforms such as sensing, mobile computing, and cloud servers, the Internet of Things (IoT) is recognized as a very important technology worldwide. In addition, the commercial service of the 5th generation mobile communication system (5G) is scheduled to start in Japan in 2020. The medical, healthcare and welfare fields are receiving great attention as a target for these applications. There is great expectation for innovation of medical, health and welfare care services such as telemedicine or telesurgery using 5G, and health monitoring using biomedical sensors equipped with wireless communication functions. To promptly bring those technologies to practical use, it is desirable to develop basic research such as biosensors, AI/data analysis, communication systems, security, infrastructure and so on as soon as possible. In response to those circumstances, the Technical Committee on Healthcare and Medical ICT (MICT) will hold the 14th International Symposium on Medical Information and Communication Technology (ISMICT 2020) in Nara in May 2020. For the 100-year life, ISMICT 2020 aims to establish a forum to present new researches and development results, exchange ideas, discuss practices, and share experiences, among technology and medical sides.

The special section is planned to publish papers on the related fields of ISMICT 2020 toward realization of innovative medical, healthcare, and welfare systems and services. However, anyone can submit a paper to the special section as well as the ISMICT 2020 contributor.

1. Scope

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

- Medical, Healthcare and Welfare Communication System, Antenna and Propagation
- AI and Big Data Analytics for Medical, Healthcare and Welfare
- Biosensor application
- Security and Personal Data Protection for Medical, Healthcare and Welfare
- Electromagnetic Compatibility for Medical, Healthcare and Welfare
- Medical, Healthcare and Welfare Service, Real Implementation, Experimentation Results
- Regulatory Science for Medical Equipment

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, https://www.ieice.org/eng/shiori/mokuj_i_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 **July 15, 2020 (JST)**. Authors should choose the Information and Communication Technology for Medical, Healthcare and Welfare Applications in Conjunction with Main Topics of ISMICT 2020 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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* Upon accepted for publication, all authors, including authors of invited papers, should pay the page charges covering the partial cost of publication around December 2020.

* At least one of the authors must be an IEICE member when the manuscript is submitted for review. Invited papers are an exception.

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* The accepted papers will be published online soon after notification of acceptance on the web site of Transactions Online. For detailed information, please visit

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