Call for Papers

Special Section on Microwave and Millimeter-Wave Technologies

The IEICE (Institute of Electronics, Information and Communication Engineers) Transactions on Electronics announces a forthcoming special section on "Microwave and Millimeter-Wave Technologies" to be published in October 2025.

Microwave and millimeter wave technologies support modern society in various fields. They have been used worldwide for information communication applications such as 5G and satellite communications, radar and positioning applications such as weather radar, medical monitoring, and GPS, and energy applications such as microwave ovens and plasma heating. In the future, they are expected to continue to create new applications including Beyond 5G/6G, IoT, intelligent mobility, health monitoring, wireless power transmission, and microwave chemical processes, and so on. Further research and development based on theory, design, simulation, measurement, system etc. is essential for microwave and millimeter-wave technologies to build a sustainable future society.

In such a background, this special section will present the latest high-quality research articles related to the area of microwave and millimeter-wave technologies. The section, therefore, solicits paper submission from all people engaged in the microwave and millimeter-wave technical fields.

1. Scope
Contributions are solicited in the following topics, but are not limited to:
- Active devices and circuits (low-noise devices and circuits, high-power devices and circuits, microwave tubes, amplifiers, mixers, oscillators, switches, MMICs, analog and mixed signal ICs, new energy IC, etc.)
- Passive components (waveguides and transmission lines, filters and resonators, directional couplers and hybrids, metamaterials, RF MEMS, LTCC devices, ferrite and acoustic wave components, packaging)
- Microwave/millimeter-wave/terahertz systems (5G/Beyond 5G/6G technologies, intelligent mobility technologies, sensing/imaging technologies, biological information sensing and monitoring, health care systems, RFID, etc.)
- Microwave/millimeter-wave/terahertz integrated antennas technologies
- Microwave/millimeter-wave/terahertz measurement technologies and packaging technologies
- Microwave photonics
- Wireless power transfer technologies
- Electronics simulation technologies

2. Submission Instructions
The deadline for paper submission is October 7, 2024. Acceptable manuscript type for the special section is either PAPER or BRIEF PAPER. Manuscripts should be prepared according to the style guidelines in the “Information for Authors” which is available at https://www.ieice.org/eng/shiori/mokuji_es.html. The total length of the manuscript for PAPER should not exceed 8 printed pages, and that for BRIEF PAPER should not exceed 4 printed pages. It is noted that the Special Section will accept only via electronic submission. Prospective authors are requested to carefully follow the submission process described below. Please submit a paper via the IEICE website https://review.ieice.org/regist/regist_baseinfo_e.aspx. Please choose the [Special-MM] Microwave and Millimeter-Wave Technologies as a "Journal/ Section" on the online screen. DO NOT CHOOSE [Regular-EC].

For any inquiries, please contact:
Dr. Chun-Ping Chen (Kanagawa Univ.)
PHONE: +81-45-481-5661, E-mail: chen@kanagawa-u.ac.jp

3. Special Section Editorial Committee
Guest Editor: Ryo Ishikawa (UEC)
Secretary: Kouji Shibata (Hachinohe Inst. of Tech.), Chun-Ping Chen (Kanagawa Univ.)
Guest Associate Editors: Hiroyuki Kayano (AIST), Masaya Tamura (Toyoohashi Univ. of Tech.), Masahito Nakamura (NTT), Shintaro Shinojo (Mitsubishi Electric), Hiromichi Yoshikawa (Kyocera), Naoki Hasegawa (Softbank), Tomoyuki Furuuchi (Tohoku Univ.), Tadatoshi Sekine (Shizuoka Univ.)

[IMPORTANT NOTICE]
* Authors must agree to the "Copyright Transfer, Article Processing Charge Agreement, Notices from the IEICE, and Privacy Policy" via electronic submission.
* Upon accepted for publication, all authors, including authors of invited papers, should pay the page charges covering partial the cost of publication around March 2025. If payment is not completed by April 15, 2025, your manuscript will be handled as rejection.
* The accepted papers will be published online soon on the website of Transactions Online after the payment of article processing charges been completed. For detailed information, please visit https://www.ieice.org/eng/shiori/page2_es.html#8

* If there are non-members among the authors, we recommend that the authors take this opportunity to join the IEICE. For detailed information on the IEICE Membership Application, please visit the webpage, https://www.ieice.org/eng_r/join/individual_member.html.
If all authors are non-members, the article processing charge for non-members will be applied, except for invited papers.

* IEICE Trans. on Electronics requires authors to cite 30 or more references for full paper and 15 or more references for brief paper.

* All papers published in or after August 2023 issue are opened to all readers in the world through J-STAGE.

* IEICE has begun a multilingual (16 languages) translation trial of IEICE Transactions Online in April 2024. Please visit https://www.ieice.org/eng/s_issue/cfp/triale.pdf for details.