

----- Special Issue on Multidisciplinary and Innovative Key technologies  
in Advanced communication systems (MIKA) -----

More than 200 researchers from various fields have participated in MIKA 2018 and 2019 where they actively exchanged opinions and engaged in discussions on interdisciplinary research and development focusing on wireless communication technologies. In this special issue, research papers related to innovative communication network technologies, not limited to wireless communication technologies, are widely invited by open call. Papers from not only the IEICE Communications Society, but also other societies and groups, as well as researchers belonging to other academic societies, are welcome. One of the scopes of this special issue is to publish valuable papers from such a wide range of academic and industry fields, which will lead to new seeds of technological innovation.

### 1. Scope

This special issue covers the entire field of communication networks including the following but not limited to topics: (1) Innovative device technologies: Antennas, analog/digital circuits, electromagnetic compatibility (EMC), AI and machine learning, (2) Innovative communications technologies: Optical/wireless communications, satellite/space/underwater communications, modulation and coding schemes, wireless power transmission, (3) Innovative networks technologies: Optical/wireless networks, network virtualization, Internet, cross-layer design, social networking services, (4) Innovative data processing: AI and machine learning, QoS/QoE/QoL, security, privacy protection, edge computing, (5) Innovative applications: E-health, agricultural/industrial IoT, smart X, city OS.

### 2. Schedule

Submission will open on October 8th, 2021 for three technical journals and the deadlines are set as follows:

➤ **Deadline: November 8th, 2021 (JST)** (for IEICE Trans. Commun. and IEICE Trans. Commun. (JPN))

➤ **Deadline: February 18th, 2022 (JST)** (for IEICE Communications Express)

Accepted papers and letters will be published as special sections/clusters in all the journals on October 1, 2022.

### 3. Submission Instructions

#### 3.1. IEICE Transactions on Communications

A paper on original, effective, and completed research work should be submitted, the standard length of which is 8 pages. Letters are not accepted. Manuscripts should be prepared by referring to "Information for Authors" in IEICE Trans. Commun.: [https://www.ieice.org/eng/shiori/mokuji\\_cs.html](https://www.ieice.org/eng/shiori/mokuji_cs.html). A manuscript and electrical source files should be submitted by Nov. 8th, 2021: [https://review.ieice.org/regist/regist\\_baseinfo\\_e.aspx](https://review.ieice.org/regist/regist_baseinfo_e.aspx). The resubmission period after the 1st review may be shortened according to the schedule of the special issue. Authors should choose [MIKA in IEICE Trans. Commun.] as "Journal/Section."

#### 3.2. IEICE Transactions on Communications (JPN)

A paper and a letter on original and effective research work should be submitted, the standard length of which are 8 and 2 pages, respectively. The language of the paper and letter is Japanese. For details, please refer to the Japanese CFP on this special issue.

#### 3.3. IEICE Communications Express

A letter is limited to 1500 words of the body text and a maximum of 3 figures, tables, or algorithms. Manuscripts should be prepared according to "Information for Authors" in ComEX: [https://www.ieice.org/publications/comex/data/for\\_authors.html](https://www.ieice.org/publications/comex/data/for_authors.html). A manuscript may be submitted at any time and any number of times during the submission period via the IEICE website: [https://review.ieice.org/regist/regist\\_baseinfo\\_e.aspx](https://review.ieice.org/regist/regist_baseinfo_e.aspx). If you resubmit a revised manuscript, please specify the manuscript ID of the previous submission and send a "Reply Letter" to the reviewer's comments. The accepted letter will be published as an advance publication on the ComEX website as soon as the payment of the article charge is confirmed. Authors should choose [MIKA in ComEX] as "Journal/Section."

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### 4. Special Section/Cluster Editorial Committee

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

\* Upon accepted for publication, all authors for IEICE Trans. Commun. and IEICE Trans. Commun. (JPN), including authors of invited papers, should pay the page charges covering the partial cost of publication around March 2022. Please note that if accepted, all authors for IEICE Commun. Express are requested to pay for the article charges.

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