[Call for Papers]

Special Cluster on Antennas and Propagation Technologies 2026

The IEICE Communications Express (ComEX) will publish the "Special Cluster on Antennas and Propagation Technologies 2026" in its June 2027 issue. This special cluster aims to report advances in antennas and propagation related to fifth- and sixth-generation mobile communication systems, MIMO, integrated sensing and communication (ISAC), metamaterials, and wireless power transmission. Submissions are encouraged on research presented at meetings of the IEICE Technical Committee on Antennas and Propagation, AWAP2026, MJWRT2026, AMT meetings, the IEICE Society Conference in September 2026, ISAP2026 in October 2026, and other related events.

1. Scope

Topics of interest include, but are not limited to, the following:

Antennas and related technologies: Antenna design, analysis, and measurement; broadband antennas; millimeter-wave and terahertz antennas; reconfigurable antennas; antenna systems including adaptive arrays; large-scale arrays and near-field beamforming; AI- and machine-learning-based antenna design and optimization; and other antenna-related technologies.

Propagation and related technologies: Theoretical analysis, modeling, and experiments for mobile and indoor propagation channels; millimeter-wave and terahertz propagation; near-field propagation; propagation channels for non-terrestrial networks (NTN); propagation channel analysis and modeling for ISAC; microwave remote sensing; and other radio propagation technologies.

Electromagnetic theory and related technologies: Electromagnetic analysis; metamaterials; metasurfaces; radio wave control using reconfigurable intelligent surfaces (RIS); propagation simulation; AI- and machine-learning-based electromagnetic analysis and inverse design; and other technologies related to electromagnetic theory.

Radio systems and related technologies: MIMO; distributed antenna systems; ISAC; NTN; wireless power transmission; wearable devices, body/personal area networks (BAN/PAN), and medical applications; communication and sensing systems using antennas and propagation, including sensor networks; and other radio system technologies.

2. Submission Deadlines

Two submission periods are prepared for this special cluster, and the deadlines are set as:

First deadline: December 4, 2026 (JST) (The submission site will open on November 13, 2026.)
Second deadline: January 29, 2027 (JST) (The submission site will open on January 4, 2027.)

3. Submission Instructions

The maximum number of pages is four (4), excluding one (1) references page. Manuscripts should be prepared according to the guideline in the "Information for Authors." The latest version is available at the website, https://www.ieice.org/publications/comex/data/for_authors.html. In particular, please refer to the paragraph on novelty. The review process will begin immediately after submission. The notification of review evaluation for the letter submitted in the first submission period and that in the second one will be sent by **December 25, 2026**, and **February 25, 2027**, respectively. It is allowed that authors submit a revised version of the letter, which is rejected in the first submission period, in the second submission period. All the accepted letters will be published online on IEEE Xplore and J-STAGE as open access articles under a Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 International License. Before the finalized versions, the accepted letters will be published online on IEEE Xplore after the payment is completed as a pre-print version of the manuscripts. The publication date of the special cluster is fixed for the June 1st, 2027. ComEX will accept only the letter type of manuscripts by electronic submission using one of the officially approved formats (LaTeX style file or Microsoft Word template). Submit a manuscript and electronic source files (LaTeX/Word files, figures) via the IEICE Web site https://review.ieice.org/regist/regist_baseinfo_e.aspx. In this regard, authors should choose the [Special Cluster on Antennas and Propagation Technologies 2026] as a "Journal/Section" on the online screen. Do not choose [Regular-XB].

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4. Special Cluster Editorial Committee

Guest Editor-in-Chief: Tetsuro Imai (TDU)
Guest Editors: Michitaka Ameya (AIST), Manabu Yamamoto (Hokkaido Univ.)
Guest Associate Editors: Michio Takikawa (Nihon Univ.), Hiroaki Nakabayashi (ChibaTech), Kentaro Murata (Iwate Univ.), Yoshiki Sugimoto (NITech), Takashi Tomura(Science Tokyo), Takuya Okura (NICT), and three additional members (TBC)

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