

Call for Papers

----- Joint Special Section on Opto-electronics and Communications for Future Optical Network -----

The IEICE Transactions on Communications announces that it will publish a special section entitled "Joint Special Section on Opto-electronics and Communications for Future Optical Network" in the **November 2026** issue.

This Special Section will be published in conjunction with the 30th Optoelectronics and Communications Conference (OECC 2025), which was held in Sapporo, Japan from June 29 to July 3, 2025. It is cosponsored by the IEICE Communications Society and the IEICE Electronics Society, and co-organized with the International Conference on Photonics in Switching and Computing 2025 (PSC2025).

The purpose of this Special Section is to present a collection of original papers that provide an overview of the current progress in research, development, and applications of optical communication systems and optoelectronics.

Submission of papers presented at OECC/PSC 2025 is strongly encouraged. However, presentation at OECC/PSC 2025 is not mandatory for inclusion in this Special Section. Please note that presentation at the conference does not guarantee acceptance of the paper. The regular review process will be conducted for this Special Section.

1. Scope

The major topics of interest include:

- Core/Access/Data Center Networks and Subsystems (O1)
- Transmission Systems and Subsystems (O2)
- Optical Fibers, Cables, Fiber Devices and Fiber Sensing (O3)
- Optical Active Devices and Modules (O4)
- Optical Passive Devices and Modules (O5)
- Photonic Switching Devices, Systems and Networks (P1)
- Photonics for Computing and Deep Learning Applications (P2)

Papers in categories O1, O2, O3, and P1 should be submitted to the **IEICE Transactions on Communications**, while papers in categories O4, O5 and P2 to the **IEICE Transactions on Electronics**.

2. Submission Instructions

The standard number of pages is 8. Page charges increase significantly for additional pages. Manuscripts should be prepared according to the guidelines outlined in the "Information for Authors". The latest version is available at the following websites:

IEICE Transactions on Communications: https://www.ieice.org/eng/shiori/mokuji_cs.html

IEICE Transactions on Electronics: https://www.ieice.org/eng/shiori/mokuji_es.html

The revision period for a manuscript after acknowledgement of conditional acceptance for this special section may be shorter than that for regular issues (60 days) due to the tight review schedule.

This special section will only accept papers via electronic submission. Authors should submit a manuscript and electronic source files (TeX/Word files, figures, author's photos and biographies) through the IEICE website at https://review.ieice.org/regist/regist_baseinfo_e.aspx **by December 23, 2025 (Japan Time) for papers in all categories**. Considering the technical field of the paper, authors should select either Opto-electronics and Communications for Future Optical Network of IEICE Transactions on Communications (**Special-OB**) or Opto-electronics and Communications for Future Optical Network of IEICE Transactions on Electronics (**Special-OC**) as the "Journal / Section" on the online submission screen. Please do not select [Regular-EB] or [Regular-EC].

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3. Special Section Editorial Committee

Opto-electronics and Communications for Future Optical Network of IEICE Transactions on Communications

Guest Editor-in-Chief: Takehiro Tsuritani (KDDI Research, Inc.)

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* Authors must agree to the "Copyright Transfer, Article Processing Charge Agreement, Notices from the IEICE, and Privacy Policy" via electronic submission.

* Upon acceptance for publication, all authors, including those of invited papers, are required to pay page charges covering a portion of the publication costs around April 2026. For detailed information, please visit https://www.ieice.org/eng/shiori/page2_cs.html#5

* 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 web-page, 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.

*The accepted papers will be published online on the publishing websites (IEEE Xplore) after the payment is completed as an advance publication. For detailed information, please visit https://www.ieice.org/eng/shiori/page2_cs.html#8