

Call for Papers

--- Special Section on Forefront Computing ---

The IEICE Transactions on Information and Systems announces that it will publish a special section entitled “Special Section on Forefront Computing” in January 2026. The objective of this special section is to publish and overview recent progress in the interdisciplinary area of computer architecture, reconfigurable systems, software for the computer system, algorithms for parallel, distributed, and networking. This special section will include papers based on the presentation at the International Symposium on Computing and Networking (CANDAR'24) held in Okinawa in addition to papers applied for this call for papers. All submitted papers are subjected to the same review process as those papers accepted for publication in the regular issues.

1. Scope

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

- Reconfigurable systems and architectures (parallel processor architectures, cluster/grid systems, network and storage architectures, network-on-chip, high performance interconnect, FPGA, PLD, dynamic reconfiguration, and virtual hardware)
- Software for computer systems and reconfigurable systems (operating systems, middleware, tools, virtualization, parallel programming models and languages, web services, cloud and distributed computing, and cluster/grid scheduling and resource management)
- Algorithms for parallel and distributed systems and applications (high-performance computing, IoT, machine learning, AI, image processing and computer graphics, data mining and information retrieval, multicore and accelerator-based computing, network algorithms, green computing, simulation and visualization, scheduling and load balancing, and performance model and evaluation)
- Distributed systems and networking (ubiquitous computing, P2P networks, wireless networks, and mobile computing)

2. Submission Instructions

- A manuscript should be prepared according to the guideline given in “The Information for Authors” (https://www.ieice.org/eng/shiori/mokuji_iss.html). We encourage the authors to use the IEICE Style File (<https://www.ieice.org/ftp/index-e.html>). The preferred length of the manuscript is 8 pages for a PAPER and 2 pages for a LETTER with the format determined by the IEICE Style File.
- Submit the manuscript through the IEICE Web site (https://review.ieice.org/regist/regist_baseinfo_e.aspx). Choose “[Special-PA] Forefront Computing” in the menu of “Journal/Section” on the submission page. Do not choose “[Regular-ED] Information and Systems” or other special sections.
- Authors must agree to the "Copyright Transfer, Article Processing Charge Agreement, Notices from the IEICE, and Privacy Policy " via electronic submission.
- Submission deadline of the manuscript is January 10, 2025. (No Extension)

Contact:

Takumi Honda, Fujitsu, 1-1, Kamikodanka 4-chome, Nakahara-ku, Kawasaki, Japan
Tel: +81-50-3619-7414, Email: honda.takumi (at) fujitsu.com

3. Special Section Editorial Committee

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4. Note

- * Upon acceptance for publication, all authors, including authors of invited papers, should pay the page charges covering the partial cost of publication around June 2025. If payment is not completed by 15 July 2025, your manuscript will be handled as a rejection.
- * The standard period of 60 days between the notification (of conditional acceptance) and the second submission can be shortened according to the review schedule.
- * 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.
- * Open Access Publishing: All papers published in the IEICE Transactions on Information and Systems since January 2008 have been opened to all readers in the world through J-STAGE. <https://www.jstage.jst.go.jp/browse/transinf>.
- * 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.
- * The special section invites papers particularly from, but not restricted to, researchers who presented their original works in the twelfth International Symposium on Computing and Networking (CANDAR'24).