

Call for Papers

Special Section on Superconducting Electronics for Quantum Information Technologies

The Institute of Electronics, Information and Communication Engineers (IEICE) Transactions on Electronics announces a forthcoming special section entitled "Superconducting Electronics for Quantum Information Technologies" to be published in March 2019. Quantum information technology is strongly expected to develop in the fields of quantum computing, quantum communication and measurement. The superconducting electronics is used as the heart of quantum computing elements, and superconducting measurement devices such as high-efficiency and low-noise single photon detectors provide excellent performances that outperforms the conventional technologies. For these reason, superconducting electronics is an indispensable technical field for the development of quantum information technology. This special section is dedicated to collecting current topics of superconducting electronics contributing to the development of quantum information technologies.

1. Scope

Special session covers all the research areas related to superconducting electronics including the following areas.

- quantum computing and related technologies
- quantum information and communication
- quantum measurement technologies
- device fabrication technologies

2. Submission Instructions

The submission deadline is **June 29, 2018**. We welcome electronic submission of two manuscript types, PAPER and BRIEF PAPER, of which page limits are 8 pages and 4 pages, respectively. Authors are requested to follow the submission process described below.

Submit papers using the IEICE Web site https://review.ieice.org/regist/regist_baseinfo_e.aspx.

Authors should choose the "[Special-SD] Superconducting Electronics for Quantum Information Technologies" as a "Journal/Section". Do not choose [Regular-EC].

Manuscripts should be prepared according to the "Information for Authors" available at http://www.ieice.org/eng/shiori/mokuji_es.html.

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3. Special Section Editorial Committee

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[IMPORTANT NOTICE]

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

* Please note that if the submitted paper is accepted, all authors, including authors of invited papers, are requested to pay for the page charges covering partial cost of publications.

* At least one of the authors must be an IEICE member when the manuscript is submitted for review except for Invited papers. We recommend that authors unaffiliated with IEICE apply for membership (https://www.ieice.org/eng/join_ieice/index.html).

