

Special Section on Recent Advances in Simulation Techniques and Their Applications for Electronics

The IEICE (Institute of Electronics, Information and Communication Engineers) Transactions on Electronics announces a forthcoming special section on Recent Advances in Simulation Techniques and Their Applications for Electronics to be published in **November 2020**.

Computer simulation plays an important role in the design of systems, equipment and their components, and is also a powerful tool for estimation of various risks and safety problems. Moreover, it is used for state-of-the-art automatic discrimination by machine learning and deep learning. The simulation techniques for fields, electronic and optical devices, and systems are considered as common topics in our society. The purpose of this special section is to present a collection of original papers that give overviews of recent progress of research and development in simulation techniques and their applications for electronics. Submission from researchers and engineers in this field is highly encouraged.

1. Scope

The major topics of interest include:

- Techniques on Computer Simulations for Electronic Engineering (Electromagnetics, Circuits, Semiconductors, Electronic Systems, etc.)
- Hardware and Software Acceleration Techniques for Computer Simulations
- High-Accuracy Techniques
- Comparison and Estimation of Simulation methods (Canonical Problems for Comparison / Estimation)
- Multi-Physics Simulations
- Modeling and Optimization Techniques
- Computer Platforms for Simulators
- Simulators for Industrial and Educational Purposes
- Machine Learning and Deep Learning

2. Submission Instructions

The deadline for submission is ~~October 10, 2019~~ **November 1, 2019 (deadline extension)**. Types of manuscripts for this Special Section are PAPER and BRIEF PAPER. Manuscripts should be prepared according to the style guidelines in the "Information for Authors" which is available at http://www.ieice.org/eng/shiori/mokuji_es.html. The length of PAPER should not exceed 8 printed pages and of BRIEF PAPER should not exceed 4 printed pages. The term for revising the manuscript after acknowledgement of conditional acceptance for this special section could be shorter than that (60 days) for other sections because of the tight review schedule.

This special section will accept papers only by electronic submission. Prospective authors are requested to follow carefully the submission process described below.

Submit a paper using the IEICE Web site https://review.ieice.org/regist/regist_baseinfo_e.aspx. Authors should choose "[Special-ES] Recent Advances in Simulation Techniques and Their Applications for Electronics" as a "Journal / Section". Do not choose [Regular-EC].

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3. Special Section Editorial Committee

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- * At least one of the authors must be an IEICE member when the manuscript is submitted for review. Invited papers are exceptions. We recommend that authors unaffiliated with IEICE apply for membership. For membership applications, please visit the web-page, <http://www.ieice.org/eng/join/member.html>.