
CALL FOR PAPERS

Special Section on Mathematical Systems Science and its Applications

The IEICE (Institute of Electronics, Information and Communication Engineers, Japan) Transactions on Fundamentals of Electronics, Communications and Computer Sciences (published in February 2013).

Submission deadline: March 31, 2012.

The IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences announce a forthcoming Special Section on Mathematical Systems Science and its Applications to be published in February 2013.

Mathematical systems science is the study of design, analysis, verification, and control based on mathematical models and it is applicable in many engineering and scientific research areas including emergent fields such as cyber-physical systems, man-machine systems, open systems science, and systems biology. The aim of this special section is to clarify the state of art of research on mathematical systems science and to promote the future research.

The topics of interest within the scope of this special section include the following areas:

- System theory: Petri net, concurrent systems, discrete event systems, hybrid systems
- Formal methods for verification and design: model checking, proof system, scheduling, supervisory control
- Cyber-physical systems: embedded systems, real-time systems
- Mathematical approaches to human factor: modeling and analysis of human behaviors, business process, service science
- Novel mathematical methods: open systems science, systems biology
- Applications and case studies: multi-car elevator systems, manufacturing systems, transportation systems, enterprise information systems

We also welcome letter submissions on industrial case studies.

For the submission to this Special Section, at least one author of each paper must be a member of the IEICE. We strongly recommend that all authors apply for IEICE membership. For membership applications, please visit the web-page, <http://www.ieice.org/eng/member/OM-appli.html>

The submitted paper will be reviewed by reviewers according to the ordinary rules of the Transaction Editorial Committee. It is recommended that the lengths of a paper and a letter for this special section are within 8 and 2 printed pages, respectively. Please consult the Information for Authors that is available at the web page: http://www.ieice.org/eng/shiori/mokuji_ess.html

Prospective authors are requested to follow carefully the submission process described below.

1. Submit a paper using the IEICE Web site https://review.ieice.org/regist_e.aspx. Authors should choose the “[Special-EA] Mathematical Systems Science and its Applications” as a “Type of Issue (Section)/Category of Transactions” on the online screen. Do not choose “[Regular-EA]”.
2. Send the following items to Prof. Morikazu Nakamura (Guest Editor) by E-mail, FAX or postal mail. Please mark “Special Section on Mathematical Systems Science and its Applications” on the envelope in the case of postal mail.
 - “Copyright Transfer and Page Charge Agreement” (mandatory)
 - “Confirmation Sheet of Manuscript Registration” (mandatory)

The deadline for the paper submission is March 31, 2012.

Please note that if the number of accepted papers exceeds the limit, some papers may be published in the following transactions.

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* Please note that if accepted, all authors should pay the page charges covering partial cost of publication. Authors will receive 50 copies of the reprint.

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