Special section on concurrent/real-time and hybrid systems: Theory and applications

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CALL FOR PAPERS

Special Section on Concurrent/Real-time and Hybrid Systems: Theory and Applications

The IEICE (Institute of Electronics, Information and Communication Engineers, Japan) Transactions on Fundamentals of Electronics, Communications and Computer Sciences (published in November 2008).

Submission deadline: April 10, 2008.

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The IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences announce a forthcoming Special Section on Concurrent/Real-time and Hybrid Systems: Theory and Applications to be published in November 2008.

Concurrent systems, in which many interacting processes run concurrently, include vast variety of real systems such as communication systems, computer software/hardware/networks, transportation systems, manufacturing systems, social systems and so on. The research on concurrent systems is shifting from fundamental theories to development of computer tools for design and verification, and application to real problems. On the other hand, real-time and hybrid systems, in which continuous dynamics and discrete dynamics run with interaction, have become noticed to have application to important fields such as embedded systems, man-machine systems, and systems biology. In addition, formal approaches to concurrent systems are successfully extended to ones that can handle problems on hybrid systems. Studies on concurrent/real-time and hybrid systems will be of more and more importance in the near future.

The aim of this special section is to clarify the state of art of research on concurrent/real-time and hybrid systems and to promote the future research. The topics of interest within the scope of this special section include, but not limited to, the following areas:

- Modeling, analysis, design, verification and computer tools for concurrent/real-time and hybrid systems
- Embedded systems, manufacturing systems, control systems, robotics
- Enterprise information systems, WEB systems, e-Society
- Decentralized autonomous systems, agent systems
- Biological/medical systems
- Novel applications

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:
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Prospective authors are strongly encouraged to submit an electronic version of the manuscript in PDF format to syamane@is.t.kanazawa-u.ac.jp and send Copyright transfer form via postal mail to the following address. If the electronic submission is not possible, please send four copies of the manuscripts to the following address. In case of the hard-copy submission, the top of the first page should be marked with ``Special Section on Concurrent/Real-time and Hybrid Systems'' in red ink.

The deadline for the paper submission is April 10, 2008.

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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