CALL FOR PAPERS

Special Section on

Formal Approach

The IEICE Transactions on Information and Systems announces a forthcoming special section on Formal Approach to be published in June 2015.

Formal methods and techniques play a key role in designing and developing highly reliable information systems and embedded systems. The last decades have seen various new techniques and profound theoretical results using formal methods in surprisingly many fields such as modeling, requirements analysis, specification, automatic generation of codes, test, verification, maintenance, and reuse. They are rapidly extending their application domains as a result of the recent growth of information and communication technologies.

The Special Section on Formal Approach aims at stimulating research on formal approach to information systems and embedded systems, ranging from fundamental theory to case studies in practical systems. Our emphasis is put on the cross-fertilization of related research fields and encouragement of young researchers.

1. Topics
The major topics are listed below, but we solicit submissions in all areas of formal approaches, i.e., first to formalize information systems, embedded systems, and their environment, next to analyze their behavior and to derive their properties rigorously, and then to solve various problems in designing and managing the systems.

- Theoretical foundations: all aspects of theory related to formal description and verification for structure and behavior of systems.
- Formal techniques: techniques for mainly describing and analyzing systems, such as software, hardware and network.
- Formal tools: tools based on formal methods such as model checker, theorem prover, and static and dynamic analysis.
- Applications: practical experiences applying formal methods to information systems and embedded systems.
- Education: education on formal methods.

2. Submission Instructions
The deadline for submission is August 20, 2014, 23:59 JST (GMT+9). Manuscripts should be carefully prepared according to the guideline in the "Information for Authors" (available at http://www.ieice.org/eng/Shiori/mokuji_iss.html). The preferred length of the manuscript is 8 pages. Only electronic submission through the web page is accepted.

Submit a complete paper and transfer copyright of the paper using the IEICE Web site
https://review.ieice.org/regist/regist_baseinfo_e.aspx

Authors should choose the [Special FO] Formal Approach as a "Journal/Section" on the online screen.

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Kozo Okano
Graduate School of Information Science and Technology,
Osaka University
1-5 Yamada-oka, Suita, Osaka 565-0871, Japan
FAX: +81-6-6879-4111
e-mail: okano(at)ist.osaka-u.ac.jp

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4. Important Dates
Submission Deadline: August 27, 2014, 23:59JST (GMT+9)
First Notification: October 16, 2014
Final Notification: January 23, 2015

5. Further Information
Further information may be obtained from the web page at:
http://sdl.ist.osaka-u.ac.jp/FA/

6. Important Notice
At least one of the authors must be an IEICE member when the manuscript is submitted for review. For the application of IEICE membership, visit
http://www.ieice.org/eng/member/08-appli.html.
If accepted for publication, authors are required to pay the page charges covering part of the cost of publication.

(As of March 26, 2014)