

Special Section on Formal Approach

The IEICE Transactions on Information and Systems announces a forthcoming special issue on *Formal Approach* to be published in **May 2009**.

Formal methods and techniques play a key role in the design and development of highly reliable hardware, software, and systems. The last decades have seen various new techniques and deep 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 its 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, 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.

Topics:

We solicit submissions in all areas of formal approaches, including (but not limited to):

Theory: Formal Approaches using Logic, Automata and Formal Language, Rewrite Systems, and other Models of Computation.

Formal Specification: Petri Net, Process Algebra, Timed Automata, Statechart, UML, and XML.

Verification Method: Model Checking, Automatic and Semi-Automatic Theorem Proving, and Test.

Security: Formal Approaches to Information and Computer Security.

Formal Approaches to Various Systems: Hardware, Software, Distributed System, Embedded System, Mobile System, and Ubiquitous System.

Submission Instructions:

The deadline for submission is **July 18, 2008**.

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 acceptable format is PDF, and the preferred length of the manuscript is 8 pages. Only electronic submission through the web page is accepted.

1. Submit a paper through the web page https://review.ieice.org/regist_e.aspx. Authors should choose "[Special ED] Formal Approach" as a "Type of Section (Issue)/Transactions" on the online screen.
2. Send signed and completed forms of "Copyright Transfer and Page Charge Agreement" and "Confirmation Sheet of Manuscript Registration" (which will be generated when you submit a paper) by postal mail (e-mail or FAX is not acceptable) to:

The IEICE Publishing Office
Kikai-Shinko-Kaikan Bldg., Annex 3F
3-5-22 Shibakoen, Minato-Ku, Tokyo, 105-0011 JAPAN

Please mark "[Special ED] Formal Approach" on the envelope.

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Further information may be obtained at <http://logic.cs.tsukuba.ac.jp/FA/en/>. All inquiries should be sent to the guest editor.

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