Convergence of IC & Complexity

Call for Papers

10 – 12 December, 2014 • Marina Bay Sands, Singapore

The International Symposium on Integrated Circuits (ISIC) dates back to 1985 and is now recognized as one of the major conferences in the highly important field of theory, design, and implementation of integrated circuits and systems. The ISIC-2014, organized by Nanyang Technological University and IEEE Singapore Section, will be held in Singapore from 10 to 12 December 2014 with the theme “Convergence of IC & Complexity” to address the challenges and emerging issues of integrated circuit design and system integration. ISIC-2014 will offer a rich scientific program of the highest quality with distinguished invited speakers from all over the world and provide a broad forum of exchanges for researchers and IC designers. The Proceedings of the Symposium will be indexed in IEEE Xplore, ISI Proceedings and Engineering Index (EI). A Special Issue on “Convergence of IC & Complexity” consisting of extended version of selected papers will be published with World Scientific in the Journal of Circuits, Systems and Computers indexed by SCI.

Prospective authors are invited to submit original papers as well as proposals for special sessions on the topics including but not limited to:

CIRCUITS, DEVICES AND IC TECHNOLOGY
- Analog IC
- Digital IC
- Mixed-Signal IC
- RF/MM-Wave/Terahertz IC
- Sensor IC
- Memory IC
- Semiconductor Devices
- IC Fabrication, Assembly and 3D Packaging
- Testing Effectiveness
- IC Reliability and Failure Analysis
- Yield Modeling and Enhancement

SYSTEMS AND APPLICATIONS
- Power and Thermal Management
- Physical Design, Synthesis and Verification
- System-Level Design and Methodology
- Wireless Communication System-on-Chip
- Imaging and Video System-on-Chip
- Biomedical System-on-Chip
- Emerging 3D-IC and System
- Emerging Non-volatile Memory and System
- Mobile and Cloud Computing System
- Cyber-Physical Computing System
- Internet of Things and Big-Data Analytics

Tutorials: The tutorials will be held on Wednesday, 10 December 2014. The organizing committee is soliciting proposals for tutorial sessions. Interested individuals may submit their proposals to Tony T. H. Kim at THKIM@ntu.edu.sg.

Special Sessions: The organizing committee is soliciting proposals for special sessions. Interested individuals may submit their proposals to H. Yu at haoyu@ntu.edu.sg.

Paper submissions: A maximum 4-page manuscript (in standard IEEE double-column format), including title, authors’ names, affiliations and e-mail addresses, and a short abstract is requested. Papers must be submitted electronically in PDF format through the conference website at: http://www.ISIC2014.org. Only electronic submission is accepted.

IMPORTANT DATES

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<th>Event</th>
<th>Deadline</th>
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<td>Deadline for special session proposals</td>
<td>1 May 2014</td>
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<td>Notification of special session acceptance</td>
<td>15 May 2014</td>
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<td>Deadline for submission of papers in regular sessions</td>
<td>1 June 2014</td>
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<td>Deadline for submission of tutorial proposals</td>
<td>1 June 2014</td>
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<td>Notification of paper acceptance</td>
<td>1 September 2014</td>
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<td>Submission of camera-ready papers</td>
<td>15 October 2014</td>
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ISIC-2014 Conference Manager: Ivan Boo
c/o, INMEET CMS Pte. Ltd., Towner Post Office, PO Box 189, Singapore 913227.
Tel: +65-6356-4727, Fax: +65-6356-7471, Email: secretariat@isic2014.org

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The International Symposium on Integrated Circuits (ISIC) is an international forum to disseminate latest findings, new research developments, and future trends and innovations in integrated circuits and systems. The Proceedings of the Symposium will be listed in the IEEE Xplore, ISI Proceedings and Engineering Index (EI).

The ISIC-2014 technical program will include Special Sessions. The objective of special sessions is to complement the regular program with specialized or advanced topics of particular interests but not limited to: CMOS THz Electronics, 3D Integrated Circuits and Systems, Non-volatile Memory, Big-data Center and Server, and Cyber-physical-system for Internet-of-Things. The Organizing Committee cordially invites interested researchers to submit proposals for special sessions. Each special session proposal shall contain the following information:

- Title of the session
- A short write-up on the theme of the proposed special session.
- Short biography of the organizer
- List of at least four (4) contributed papers. The list shall include the title, all authors, contact information of the corresponding author, and a brief abstract of each contribution. (more papers will enhance the chance of acceptance of the proposal)

The special session organizer will generally contribute a research paper or a tutorial paper that provides a positional overview of the proposed topic. The paper contributed by the special session organizer will be recognized as Invited Paper in the proceedings, if the proposal is accepted. As special sessions are highlights of the forum, at least one contributing author of each paper must register and present the paper at the conference. All special session papers are also eligible for the consideration for the Best Paper Award. Authors of selected high quality special session papers will also be invited to submit an extended version of their papers for publication in the special issue in the SCI journal: Journal of Circuits, Systems and Computers published by World Scientific Publishing as well as possible editorial book published by CRC Press.

Proposals are due on 1 May 2014 and will be assessed based on the relevance of the topic, the number of contributions and the contributing authors in the sessions, and the quality of the brief abstract of each contribution. Notification of acceptance will be sent to the special session organizers by 15 May 2014. Authors of papers included in successful proposals should submit their full manuscript by 30 June 2014. Each manuscript is limited to a maximum of 4 pages in standard IEEE double-column format. The manuscripts should be submitted electronically in PDF through the conference website at: http://www.ISIC2014.org. They will undergo peer review coordinated by the special session organizer in accordance with the standard review process set by the technical program committee of ISIC-2014. At the end of the review process, the minimum number of papers that makes the session eligible is four (4). With less than 4 papers, the accepted contributions will be transferred to the regular program.

Proposals should be sent to the Special Session Chair,

Dr. YU, Hao
E-mail: haoyu@ntu.edu.sg

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