

# IEEE COMPUTER SOCIETY ANNUAL SYMPOSIUM ON VLSI

ISVLSI  
2012

## CALL FOR PAPERS

August 19-21, 2012

Amherst, USA

[www.eng.ucy.ac.cy/theocharides/isvlsi12/](http://www.eng.ucy.ac.cy/theocharides/isvlsi12/)

This Symposium explores emerging trends and novel ideas and concepts in the area of VLSI. The Symposium covers a range of topics: from VLSI circuits, systems and design methods to system level design and system-on-chip issues, to bringing VLSI experience to new areas and technologies like nano- and molecular devices, MEMS, and quantum computing. Future design methodologies will also be one of the key topics at the workshop, as well as new CAD tools to support them. Over almost two decades the symposium has been a unique forum promoting multidisciplinary research and new visionary approaches in the area of VLSI. The Symposium is bringing together leading scientists and researchers from academia and industry. The papers from this symposium have been published as the special issues of top archival journals. This fact indicates a very high quality of the symposium papers, and we are determined to keep a strong emphasis on this critical aspect of any conference. The symposium proceedings are published by IEEE Computer Society Press.

Several leading scientists from newly emerging areas of nanoelectronics, MEMS and molecular, biological and quantum computing will be invited speakers at the symposium. The Symposium has established a reputation in bringing well-known international scientists as invited speakers, and this trend will continue.

Contributions are sought  
in the following areas

Emerging Trends in VLSI, Nanoelectronics, Molecular, Biological and Quantum Computing, MEMS, VLSI Circuits and Systems, Field-programmable and Reconfigurable Systems, System Level Design, System-on-a-Chip Design, Application-Specific Low Power, VLSI System Design, System Issues in Complexity, Low Power, Heat Dissipation, Power Awareness in VLSI Design, Test and Verification, Mixed-Signal Design and Analysis, Electrical/Packaging Co-Design, Physical Design, Intellectual property creating and sharing.

The Symposium Program will include contributed papers and speakers invited by the Program Committee, as well as a poster session. The keynote addresses, panels and special sessions are planned as well. Authors should send a PDF version of their papers through the web based submission site, as described on the symposium website.

Paper submission deadlines

Important dates are:

**Paper Submission Deadline: March 23, 2012 (extended deadline)**

**Acceptance Notification: May 20, 2012**

**Submission of Final Version: June 20, 2012**



### General Co-Chairs

*Saraju P. Mohanty,*  
*University of North Texas, USA*

*Nagarajan Ranganathan,*  
*University of South Florida, USA*

### Program Chairs

*Jürgen Becker,*  
*Karlsruhe Institute of Technology, Germany*

*Sandip Kundu,*  
*University of Massachusetts, USA*

### Local Arrangements Chair

*Sandip Kundu,*  
*University of Massachusetts, USA*

### Finance Chair

*Hai Li, NYU-Polytechnic, USA*

### Publication Chair

*Koushik Chakraborty,*  
*Utah State University, USA*

### Registration Chair

*Ayşe Coskun, Boston University, USA*

### Publicity Chairs

*Don Bouldin, University of Tennessee, USA*

*Ankur Srivastava, University of Maryland, College Park, USA*

*Ing-Chao Lin, National Cheng Kung University, Taiwan*

*Chrysostomos Nicopoulos, University of Cyprus*

### Ph.D. Forum Chair

*Michael Hübner,*  
*Karlsruhe Institute of Technology, Germany*

### Brazil and South America Liaison

*Fernanda Lima Kartensmidt,*  
*UFRGS, Brazil*

### China and South-East Asia Liaison

*Jiang Xu, Hong Kong University of Science and Technology*

### Greece and South-East Europe

*Nicolas Sklavos, Technological Educational Institute of Patras, Greece*

### Steering Committee

*Amar Mukherjee, Chair*  
*Nagarajan Ranganathan*

*Vijay Narayanan*

*Juergen Becker*

*Michael Hubner*

*Ricardo Reis*

*Lionel Torres*

*Nikolaos Voros*

*Nicolas Sklavos*

### Sponsored by

IEEE Computer Society