

Editorial

IEEE TRANSACTIONS ON COMPUTER-AIDED DESIGN OF INTEGRATED CIRCUITS AND SYSTEMS (TCAD) enters its 33rd year as we enter the New Year. The journal has continued to evolve and remains a vibrant center piece of the integrated circuit and systems design and design automation community. I am humbled by the opportunity to lead the editorial team of IEEE TCAD and am fortunate that Dr. Chuck Alpert from IBM has agreed to serve as the Deputy Editor-in-Chief. The success of the journal clearly hinges on volunteer participation. The quality of papers and the knowledge they impart to our community is the most critical metric of success for our journal. I look forward to the continued support of authors and readers in enhancing the quality of the journal. TCAD has been evolving to adapt to the fact that conference publications are growing in stature in various related sub-disciplines. TCAD has been able to reduce the review cycle between submissions to acceptance to less than 60 days, making it comparable to the typical conference review cycles. Further, authors benefit from more focused reviewer expertise and the ability to rebut and address the review suggestions with a TCAD submission.

To provide greater participation of the broader community in the journal, we invited open nominations for Associate Editors for this new term. These nominations were reviewed by the outgoing Editor-in-Chief, Prof. Sachin Sapatnekar, Dr. Chuck Alpert, and myself to identify the best match to our editorial needs and to provide diversity in board representation. The number of highly qualified nominations far exceeded our number of open board slots. I am pleased to announce

that the new editorial board includes 19 new Associate Editors, joining an experienced group retained from the previous term. The board includes representation to cover new domains such as embedded security, post-CMOS devices, green computing, and brain-inspired systems—all domains that require innovation in design and in design automation. TCAD plans to organize special sections on hot topics to encourage growth into emerging new areas. I urge our readers to volunteer to organize special sections and also to provide suggestions for keynote paper topics based on inspiring talks or work that they come across. Our keynote papers are meant to provide new problems and applications for computer-aided design that will be of broad interest to our readers.

This journal is the premier forum for presenting peer-reviewed archival research in the area of electronic design, and we will work actively to maintain and advance that reputation in the coming years. This is your journal and I count on your support and active participation in helping TCAD to highlight technologies that can benefit the design automation community to better advance the world we live in. I look forward to your suggestions on exciting new ideas that you envision for the journal.

Vijaykrishnan Narayanan, *Editor-in-Chief*
Department of Computer Science and Engineering
The Pennsylvania State University
Pennsylvania, PA 16801, USA
(e-mail: vijay@cse.psu.edu)



Vijaykrishnan Narayanan received the B.E. degree from the University of Madras, Madras, India, in 1993, and the Ph.D. degree from the University of South Florida, Tampa, FL, USA, in 1998.

He is currently a Professor of computer science and engineering and electrical engineering at The Pennsylvania State University, State College, PA, USA. His current research interests include embedded systems, computer architecture, design using emerging design technologies, and power-aware computing. He has deep interests in cross-disciplinary advances and had led and participated in such projects.

Dr. Narayanan served as the Deputy Editor-in-Chief of the IEEE TRANSACTIONS ON COMPUTER-AIDED DESIGN OF INTEGRATED CIRCUITS AND SYSTEMS and as the Editor-in-Chief of the *ACM Journal of Emerging Technologies in Computing Systems*. He has won several awards, including the 2012 ASPDAC Ten-Year Retrospective Most Influential Paper, 2012 Penn State Alumni Society Premier Research Award, and 2010 Outstanding Alumnus Award from Sri Venkateswara College of Engineering, Tamil Nadu, India. He is a fellow of IEEE. He has worked with several outstanding students who are currently in industry and academia throughout the world.