Editorial

Since the inception of this journal, several special technical tracks dedicated to new and emerging technologies have spawned at many recent design automation conferences. As an example, the 2006 IEEE/ACM International Conference on Computer-Aided Design (ICCAD) devoted a special all-day track to papers focusing on new and emerging technologies. A discussion during ICCAD 2006 initiated by Professor Mary Jane Irwin led to the idea of experimenting with a joint special issue on this topic between this journal and a sister publication, the ACM Transactions on Design Automation of Electronic Systems (TODAES), that covers design automation issues related to traditional electronic systems (i.e., systems designed using silicon-based transistors). The goal of this effort was to facilitate cross-fertilization of ideas between the two communities by selecting articles from the ICCAD 2006 special track on emerging technologies that would be disseminated to both the TODAES as well as the JETC readership. Although articles cannot physically appear in two journals/transactions, Professor Nikil Dutt (EIC of TODAES) and I worked with the ACM Publications Board to create a virtual joint special issue/section on the topics of new, emerging, and specialized technologies.

The April 2008 issue of TODAES version physically contains only the guest editorial introducing the joint special section. The actual articles are archived in the ACM Digital Library under Volume 4, Issue 2 of ACM JETC. Hard copies of the JETC/TODAES special issue will be sent to subscribers of both publications. I hope this effort will precipitate further collaborations and joint efforts across the two research communities.

Professor Nikil Dutt and I would like to thank the ACM Publications Board for working with us to create this joint special issue/section as well as the guest editors, authors, and reviewers for their work in making this a reality.

VIJAYKRISHNAN NARAYANAN
Editor-in-Chief