

Proceedings

2003 IEEE International Conference on
Microelectronic Systems Education

MSE'03

Educating Tomorrow's Microsystems Designers

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Proceedings

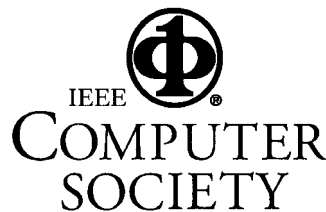
2003 IEEE International Conference on Microelectronic Systems Education

<http://www.mseconference.org/>

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Sponsored by

IEEE Computer Society Technical Committee on Design Automation
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Message from the General Chair

I welcome you to the 2003 International Conference on Microelectronic Systems Education (MSE'03), with its theme, "Educating Tomorrow's Microsystems Designers." This is the fourth in a series of conferences held in North America with the objective of improving undergraduate and graduate education in the design, implementation and testing of microelectronic systems. MSE is coordinated with the European Workshop on Microelectronics Education, which is held in even years. The conference organizers are very pleased with the large international participation at this conference.

The first MSE was organized by Don Bouldin in July of 1997, and was intended to revive and expand upon the VLSI education conferences held in the late 1980's. Since that time, the topics being discussed have broadened a great deal, and this year, we have several papers that highlight the emerging field of nanotechnology and its impact on the educational process in the fields associated with electronic systems.

MSE was co-located with the Design Automation Conference for the first time in 2001. This year again, MSE is co-located with DAC to give attendees the opportunity of seeing an unparalleled exhibit of design tools, as well as the DAC technical sessions, workshops and tutorials. We gratefully acknowledge the cooperation and support that we have received from DAC.

I greatly appreciate the efforts of the organization committee for MSE which included John Lockwood from Washington University in Saint Louis who served as our program chair, Mark Johnson from Purdue University who served as the Proceedings Chair, Kevin Kornegay from Cornell, University, who served as the poster chair, Jim Aylor from the University of Virginia who served as the Treasurer and IEEE Liaison, and Don Bouldin from the University of Tennessee who served as the Publicity Chair. They shouldered a majority of the responsibility for the success of this meeting and contributed a great deal of their time, and we owe them a debt of gratitude.

We appreciate the sponsorship of the IEEE Computer Society Technical Committees on Design Automation, Test Technology and VLSI, and the cooperation of the Association for Computing Machinery (ACM). It is our sincere hope that each attendee will profit from participation in this meeting, and that this meeting will contribute to the continual improvement of microelectronic systems education throughout the world.

Robert Klenke
Virginia Commonwealth University

Message from the Program Chair

The MSE conference provides a unique opportunity for educators to share information about new methods and tools for teaching about Microelectronics. This year, I was pleased to see a barrage of papers that address highly relevant and contemporary topics in this field. Our program includes several papers related to System on Chip (SoC) design, including one very new topic on a BioSystem on Chip (BioSoC). The program also includes new ideas for design reuse, applications that use reconfigurable hardware, mixed signal design, and tools to enable distance learning.

I would like to thank the program committee for diligently reviewing all of the papers that appear in the proceedings. By means of an electronic review process, each reviewer anonymously evaluated four papers. The scores and constructive comments provided by the members of the program committee greatly improved the overall quality of the conference.

The MSE conference will be held again in 2005. We look forward to a new set of ideas for educating the chip designers of the future. Paper submissions for the next conference will be due in December of 2004.

John Lockwood
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