

Welcome to ICCD 2006!

On behalf of the Program Committee, we would like to welcome you to the 24th International Conference on Computer Design 2006! For the fourth consecutive year, the conference is being held in San Jose, California.

The International Conference on Computer Design encompasses a wide range of technical topics in the research, design, implementation, verification and test of computer systems. Throughout its history, ICCD has retained its unique characteristics as the most diverse, multi-disciplinary venue for academic and industry practitioners to discuss practical and theoretical work in the field of computer design.

The conference technical program consists of technical papers submitted to the Program Committee for evaluation and selection, plus a number of Special Sessions and Invited Papers. The technical papers are submitted to one of five conference tracks: Computer Systems Design and Applications; Processor Architecture; Logic and Circuit Design; Tools and Methodology; and Verification and Test. The track committees are composed of technical experts in the discipline, who review and select the best submissions. On average, each paper receives four individual reviews. After the individual reviews are completed, each paper is discussed collectively by the track committee, to ensure equity and consistency in the selection process.

ICCD is truly an international conference, with participation from researchers and developers from academic institutions, research laboratories, and industry design and development groups throughout the world. This year, the Program Committee received paper submissions from 20 different countries. Of the 231 papers submitted, the track committees accepted 72 papers (31 %) for presentation at the conference. In addition, the conference program includes special sessions on “Hardware Equivalence Verification”, “Nano Technologies,” and “Interconnect Technologies.” The conference program features two keynote presentations from luminaries in our field: Professor Bill Dally from Stanford University, and Fabio Angelillis Vice President of Engineering in the Silicon Engineering Group at Synopsys.

On behalf of the Organizing Committee, we would like to thank the track committee members, and especially the track committee chairs, for their dedication and diligence in selecting an exceptional set of technical presentations. The investment of their time and insights is very much appreciated. Of course, ICCD would not happen without the excellent papers from the authors. Thanks to all of them!

On a personal note, we would like to thank our colleagues on the organizing committee for their efforts, their support, and their camaraderie. The efforts of Peter-Michael Seidel, Vice Chair and Publications Chair; Kee Sup Kim, Finance Chair; and Rich Faris, Publicity Chair are all very much appreciated. The insights and assistance from last year’s conference chair, Ed Grochowski, were also instrumental in helping us with this year’s conference logistics.

We are indebted to the support and guidance from the IEEE Computer Society and IEEE Publications staff. They patiently helped us learn how to organize and conduct an international conference. The support of the IEEE Circuit and Systems Society is also very much appreciated.

The superlative conference program at ICCD 2006 is a result of many individuals who contributed their time and expertise leading up to the event. The culmination of their efforts is the technical interchange, informal discussion, and personal communication that can only occur at the conference itself. In that regard, we hope you have a rewarding and enjoyable time at the conference. Welcome to ICCD 2006!

Kevin Rudd

*Technical Program Chair*

Carl Pixley

*Technical Program Co-Chair*

Pranav Ashar

*General Chair*