Message from
the Conference Chairs

This book contains papers presented at the IEEE International Conference on Application-Specific Systems, Architectures, and Processors (ASAP 2002) at the Doubletree Hotel in San Jose, California from 17 through 19 July 2002. This is the 13th in a series of conferences including

- The International Workshop on Systolic Arrays in Oxford, England in 1986
- The International Conference on Systolic Arrays in San Diego, California in 1998 and Killarney, Ireland in 1989

Through the years, the scope of the research presented at the conferences has evolved to encompass new trends and results in various areas of application-specific computing. This conference continues to serve as an international forum for researchers from universities and industry who are interested in the fundamental aspects of application-specific systems, architectures, and processors.

This year’s program includes a rich set of topics and outstanding papers by distinguished authors. The topics include design methodologies, low power design, computer arithmetic, memory organization, media processors, cryptography, VLSI architectures, and application-specific system design. In addition to 36 contributed papers, the conference features a keynote address by Dr. José Fortes on “Nanocomputing with Delays.” Dr. Fortes is a Professor, BellSouth Eminent Scholar, and Director of the Advanced Computing and Information Systems Laboratory at the University of Florida.

On behalf of the Program Committee, we thank the ASAP 2002 authors and attendees for their excellent contributions to this conference. We are grateful to the Program Committee members and external reviewers for their careful evaluation of all the papers submitted. They worked under a tight schedule and did an outstanding job of reviewing the papers in a timely fashion. We extend our sincere thanks to the Local Arrangement Chairs and Session Chairs for their commitment to the conference and for helping ASAP 2002 run smoothly.

Finally, we are grateful to Mary-Kate Rada for assisting in organizing the conference and Stephanie Kawada for helping with the conference proceedings.

Michael Schulte
Shuvra Bhattacharyya
Neil Burgess
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