Foreword

Welcome to the 2003 International Symposium on Low Power Electronics and Design (ISLPED)!

This is the first time that the ISLPED moves to Asia and only the second time that it moves outside California. Indeed, ISLPED is not even 10 years old: the first official ISLPED was in 1996. This indicates the continuous international interest across the VLSI electronics community for all aspects of low power. Indeed, unique to ISLPED is that it brings together researchers from academia and industry with different backgrounds in technology, circuits, micro-architectures and architectures, digital and analog design, system design and software. All have one common research concern: low power.

A record total of 221 papers were submitted, this is a 35% increase compared to the last two years. Many thanks to all the authors who submitted papers: their work is the reason this symposium has become so successful. We were able to accept a total of 90 contributions: 17 regular papers, 37 short and 36 poster papers. For organizational reasons, the poster papers have been turned into short papers. It will give more exposure to the work of the authors. Regular papers and short papers have 6 pages in the proceedings. Poster papers have 4 pages in the proceedings.

We have also an excellent program of keynote and invited speakers, representing a large span of research issues related to low power and representing all corners of the globe. The winners of the student design contest have a special session on Tuesday morning. Their papers are not included in the proceedings. An industry sponsored cash award will be presented to each selected design entry.

Many thanks to the technical program committee for all the hard work in the paper review, paper selection and session organization. It was a pleasant surprise to them to see the large number and high quality submissions to the symposium. The technical program committee also had the help of additional reviewers, which we would like to thank for their contribution. The technical program committee met in April on the UCLA campus. Even with economic constraints and health concerns, we had a very large attendance. Thanks for your commitment to the symposium. Also thanks to the members of the organizing committee for all their hard work behind the scenes: Vijay Narayanan as treasurer, Luca Benini as publicity chair, Vivek Tiwari as Design Contest chair, Diana Marculescu as Exhibits chair and Jihong Kim as local arrangements chair. The symposium has received generous support from Samsung, Texas Instruments, and Magma Design Automation. ISLPED is sponsored by ACM Sigda and the IEEE Circuits and Systems Society. It receives technical co-sponsorship from the IEEE Solid State Circuit Society and the IEEE Electron Devices Society.

Finally, we would like to thank you, the audience and the reader, for your interest and support of this symposium. We hope that you will find the symposium both stimulating and helpful. We appreciate your comments and suggestions.

Ingrid Verbauwhede & Hyung Roh
General Co-chairs

Kiyoung Choi & Rajiv Joshi
Technical Program Co-chairs