FOREWORD

On behalf of the ISSS 2002 Steering and Technical Program committees, I would like to welcome you to Kyoto and to the International Symposium on System Synthesis (ISSS). ISSS is a major international forum presenting emerging techniques for the system-level design and synthesis of computing systems. Having begun as the International Workshop on High-Level Synthesis in the mid-80's, it attracts leading design automation professionals from around the world.

ISSS 2002 is the 15th in this very successful series of symposia. This year technical sessions cover the following topics:

1. High Level and Architectural Synthesis
2. Simulation and Verification
3. Processor-Based System
4. Design Methodologies Based on Instruction Code
5. Low Power Memory System
6. Reconfigurable System
7. Practical Experiences

The technical program for ISSS 2002 has been selected by a program committee, which includes experts from industry and academia form 14 different countries. 71 submitted papers, originating from 18 different countries underwent a very strict reviewing process. Each paper has been assigned to 5 reviewers and the response from the reviewers was very high, on the average each paper received 4.37 reviews. I would like to thank all the members of the program committee and the other reviewers for their excellent work. After multiple rounds of e-mail discussion, 24 submitted papers have been selected for regular presentations. Due to the very high quality of the submitted papers and the pertinence of the problems addressed, 14 additional papers have been accepted for short presentations.

This year, we have also made efforts to invite two distinguished speakers. As the keynote speech, Mr. Kouji Ohboshi (Corporate Advisor, the ex-Chairman of NTT DoCoMo, Inc.) expresses suggestive views on driving force behind the future system design. His title is “Mobile, Broadband, Ubiquitous, and the Information Renaissance.” Dr. Francky Catthoor (IMEC) gives us an invited talk on “the Software Washing Machine,” which means a novel system design paradigm to deal with dynamic issues like multi-media and networking applications where tasks and complex data types are created and deleted at run-time based on non-deterministic events. His title is “Managing dynamic concurrent tasks in embedded real-time multimedia systems.”

You will also not want to miss two panel sessions on SoC. One is titled “Multiprocessor SoC” which is organized by Dr. Ahmed Jerraya (TIMA) and Prof. Wayne Wolf (Princeton University) and the other is titled “Security on SoC” which is organized by Prof. Hiroto Yasuura (Kyushu University) and Prof. Cathy Gebotys (University of Waterloo).

This year the Proceedings of the Symposium have been published by ACM. For 2002, the proceedings from ISSS 2002 will be included on the SIGDA Compendium CD-ROM. ACM-SIGDA made the CD-ROMs containing the proceedings of ISSS 2002 available at the symposium. They subsidized the cost of productions of the CD-ROMs as a benefit to the professional community. They will also post the proceedings on their website along with other notorious conferences. I would like to thank them for the visibility they provide to ISSS. ISSS 2002 is cosponsored by ACM-SIGDA and IEEE Computer Society, supported by many Japanese foundations and companies, and in cooperation with EICE, IPSJ and IEEE Kansai Section in Japan. I would like to thank all of them for their strong support, and would like to record their names in the proceedings.

In conclusion, I would like to express my sincere appreciation to the steering and technical program committees for their dedication and excellent contribution. I would like to thank the Session Chairs, the Invited Speakers and the Panelists for helping to make this Symposium a success. I would also like to thank all the authors for submitting valuable works to ISSS 2002. I would like to express special thanks to Prof. El Mostapha Aboulhamid, the General Chair and Prof. Roman Hermida, Past Chair for their continuous support and encouragement.

Yukihiro Nakamura
Program Chair — ISSS 2002