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## FOREWORD

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### Special Section on Formal Approach

Formal methods and techniques play a key role in the design and development of highly reliable information systems, including both hardware and software. The last decades have seen various new techniques and deep theoretical results using formal methods in remarkably many fields such as modeling, requirements analysis, specification, code generation, testing, verification, maintenance, reuse, and security.

The Special Section on Formal Approach aims at stimulating research on all aspects of formal approach to information systems, ranging from fundamental theory to case studies in practical systems. In response to the Call for Papers, nine papers and two letters were submitted. After a thorough and careful review process, the editorial committee selected three papers and two letters of exceptional quality which prove the significance and importance of formal approach research.

On behalf of the editorial committee of the Special Section, I would like to express my sincere gratitude to all who submitted their valuable papers. I am also grateful to the external reviewers and the editorial committee members, especially Guest Editors Dr. Kazuhiro Ogata, Dr. Yoshinao Isobe, and Dr. Tatsuhiro Tsuchiya, for their careful and devoted efforts towards the success of the Special Section and the progress of formal approach.

#### Guest Associate Editors:

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#### Guest Editors:

Kazuhiro Ogata (JAIST)  
Yoshinao Isobe (AIST)  
Tatsuhiro Tsuchiya (Osaka University)

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Shoji Yuen, Guest Editor-in-Chief

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**Shoji Yuen** (*Member*) received the B.E. and M.E. from Kyoto University in information engineering in 1985, 1987 and D.E. degree from Nagoya University in information engineering in 1997. In 1990, he joined the faculty of Graduate School of Engineering, Nagoya University. From 1998 to 2000, he was an Associate Professor of the center for Information Media Studies, Nagoya university. Since April 2003 he was an Associate Professor of Graduate School of Information Science, Nagoya University. And since April 2007 he has been a Professor of Graduate School of Information Science, Nagoya University. His research interests include concurrency theory and practice. He is a member of ACM, IPSJ, and JSSST.

