FOREWORD

Special Section on Formal Approach

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

The Special Section on Formal Approach aims at stimulating research on all aspects of formal approach, ranging from fundamental theory to case studies in practical systems. In response to the Call for Papers, 12 papers were submitted, out of which 5 papers were authored or coauthored by foreign researchers. After a thorough and deliberate review process, the editorial committee has selected 7 high quality papers that prove the strength of formal approach research in these countries.

On behalf of the editorial committee of the Special Section, I would like to express my sincere gratitude to all the authors who have submitted their valuable papers. I am also grateful to all the members of the editorial committee and the external reviewers for their timely service.

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Yukiyoshi Kameyama, Guest Editor

Yukiyoshi Kameyama *(Member)* received the B. Sc. and M. Sc. degrees from the University of Tokyo in 1985 and 1987, respectively, and the Ph. D. degree from Kyoto University in 1996. He worked as a faculty at Tohoku University and Kyoto University from 1987 to 2001, and presently he is an associate professor at the University of Tsukuba. His research interests include programming logic and software verification. He is a member of ACM, JSSST and IPSJ.