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## FOREWORD

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### Special Section on Foundations of Computer Science

We are very happy to publish this special section on Foundations of Computer Science. This is the fourth section on this title. The main goal of this special section is to review and promote recent progress in the field of foundations of computer science.

The special section includes nine full papers, which cover a variety of topics in the area such as approximation algorithms, finite automata, formal language, graph algorithms, graph theory, optimizing algorithms, parallel computing and quantum computing. These nine papers were selected among eighteen submissions through careful review.

As the Guest Editor of this special section, I would like to express my sincere thanks to all authors for their contributions. I greatly appreciate the voluntary work of all reviewers and also the remarkable efforts of the members of the Editorial Committee listed below.

#### Editorial Committee Members

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Shin-ichi Nakano, Guest Editor

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**Shin-ichi Nakano** (*Member*) received his B.E. and M.E. degrees from Tohoku University, Sendai, Japan, in 1985 and 1987, respectively. In 1987 he joined Seiko Epson Corp. and in 1990 he joined Tohoku University. In 1992, he received D.E. degree from Tohoku University. Since 2004 he is a Professor in the Department of Computer Science, Gunma University. His research interests are graph algorithms and graph theory. He is a member of IPSJ, JSIAM, ACM and IEEE Computer Society.

