

Preface

This volume contains selected papers presented at ICTCSDM 2016, the International Conference on Theoretical Computer Science and Discrete Mathematics. ICTCSDM 2016 was held during December 19–21, 2016, at Kalasalingam University in rural Tamil Nadu, India. The conference was jointly organized by the National Centre for Advanced Research in Discrete Mathematics (n-CARDMATH), Kalasalingam University, India, Department of Computer Science, Ball State University, USA, and Department of Mathematics, Indiana University-Purdue University, Fort Wayne, USA.

The conference was sponsored and financially supported by the Science and Engineering Research Board, Government of India, New Delhi, the National Board for Higher Mathematics, Mumbai, the Council of Scientific and Industrial Research, New Delhi, the Indian National Science Academy, New Delhi, and Kalasalingam University.

The conference attracted around 150 participants from all over the world. The nations represented were USA, Indonesia, Czech Republic, Slovakia, South Africa, Malaysia, Dubai, Iran, and India.

Twelve experts from outside India and 14 experts from leading institutions within India delivered invited talks on various topics such as line graphs and their generalizations, large graphs of given degree and diameter, graphoidal covers, adjacency spectrum, distance spectrum, b-coloring, separation dimension of graphs and hypergraphs, domination in graphs, graph labeling problems, subsequences of words and Parikh matrices, λ -design conjecture, graph algorithms and interference model for wireless sensor networks.

The call for papers for ICTCSDM 2016 was distributed around the world, resulting in 210 submission. After the review process a total of 57 papers (27%) were accepted subject to revision for publication in this volume.

We thank the authors for their valuable contributions and the Program Committee members and other referees for their constructive and enlightening comments on the manuscripts. We thank Springer for publishing the proceedings in the *Lecture Notes in Computer Science* series. We thank the Organizing Committee from Kalasalingam University for the excellent arrangements and for its efficient management of the conference-related activities. We thank all the sponsors for their financial support.

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