

Preface

The Second International Conference on Mathematics and Computing (ICMC 2015) was held at the Haldia Institute of Technology, Haldia, from January 5 to 10, 2015. Haldia is a city and a municipality in Purba Medinipur in the Indian state of West Bengal, and Haldia Institute of Technology is a premier institution that gives training to engineers and computer scientists. It has gained reputation through its institutional dedication to teaching and research.

In response to the call for papers for ICMC 2015, a total of 69 papers were submitted for presentation and inclusion in the proceedings of the conference. These papers were evaluated and ranked on the basis of their significance, novelty, and technical quality by at least two reviewers per paper. After a careful and blind refereeing process, 34 papers were selected for inclusion in the conference proceedings. The papers cover current research in cryptography, abstract algebra, functional analysis, Pal and fractal approximation, fluid dynamics, fuzzy modeling and optimization, and statistics. ICMC 2015 saw eminent personalities both from India and abroad (USA, France, Russia, Japan, Turkey, China, and Indonesia) who delivered invited addresses, workshop lectures, and tutorial talks. Speakers from India were recognized leaders from government, industry, and academic institutions like Defense Research and Development Organization (DRDO), New Delhi; Indian Institute of Sciences (IISc), Bangalore; Indian Statistical Institute (ISI), Kolkata; Indian Institute of Technology (IIT) Kharagpur; and IIT Madras. All of them are involved in research dealing with the current issues of interest related to the theme of the conference. The conference hosted four tutorial talks by Prof. Peeyush Chandra (IIT Kanpur), Dr. Prasanta Kumar Srivastava (IIT Patna), Dr. Dhanonjoy Dey (DRDO, New Delhi), and Prof. Ram N. Mohapatra (University of Central Florida, USA). There were four workshops, ranging over 2 days by Prof. Ram N. Mohapatra, Prof. Manoranjan Maiti (Vidyasagar University), Prof. C. Pandurangan (IIT Madras), and Prof. Abhijit Das (IIT Kharagpur). In addition to these, there was one keynote talk by Prof. Heinrich Begehr (Freie Universitat Berlin, Germany) and 11 invited talks by Prof. C.E Venimadhavan (IISc, Bangalore), Prof. Ekrem Savaş (Istanbul Commerce University, Turkey), Dr. P.K. Saxena (DRDO, New Delhi), Prof. Peeyush Chandra, Dr. Christina Boura (Versailles Saint-Quentin-en-Yvelines

University, France), Prof. Birendra Nath Mandal (ISI, Kolkata), Dr. Mridul Nandi (ISI, Kolkata), Prof. G.P. Kapoor (IIT Kanpur), Prof. P.D. Srivastava (IIT Kharagpur), Prof. Abhijit Das (IIT Kharagpur), and Prof. B.C. Tripathy (Institute of Advanced Study in Science and Technology, India).

A conference of this kind would not be possible to organize without the full support from different people across different committees. All logistics and general organizational aspects were looked after by the organizing committee members who spent their time and energy in making the conference a reality. We also thank all the technical program committee members and external reviewers for thoroughly reviewing the papers submitted to the conference and sending their constructive suggestions within the deadlines. Our hearty thanks to Springer for agreeing to publish the proceedings.

We are indebted to DRDO, Department of Electronics and Information Technology (Ministry of Communication and Information Technology, the Government of India), Indian Space Research Organisation (ISRO), University of Central Florida, The International Society for Analysis, its Applications and Computation (ISAAC), Cryptology Research Society of India (CRSI), Science and Engineering Research Board (DST), and Haldia Institute of Technology for sponsoring/supporting the event. Their support has significantly helped in raising the profile of the conference.

Last but not least, our sincere thanks go to all authors who submitted papers to ICMC 2015 and to all speakers and participants. We sincerely hope that the readers will find the proceedings stimulating and inspiring.

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