

# Preface

With a view to have together at one place experts and professionals working in different aspects of research in Mathematics, the idea came to organize an event where people may deliberate upon theoretical as well as computational aspects of mathematics at a common forum. We are delighted to give shape to the idea and host this International Conference on Mathematics and Computing (ICMC 2013) at Haldia Institute of Technology, Haldia, in collaboration with Scientific Analysis Group (DRDO, Ministry of Defence) and Department of Mathematics, IIT Kharagpur.

Haldia is a city and a municipality in Purba Medinipur in the Indian state of West Bengal. Haldia Institute of Technology is one of the premier educational establishments in this part of the State and has had the privilege to have organized international conferences in the past as well.

With three tracks of presentations, contributory papers were called for at ICMC 2013 and 81 papers were submitted to the conference in response. The papers were reviewed on the basis of the significance, novelty, and technical quality. Of these, 22 papers were selected for presentation and publication in the Conference Proceedings.

The papers cover different topics including Cryptography, Algebra, Functional Analysis, Approximation Theory, Fluid Dynamics, etc. The event also included Tutorials on important topics of current thrust. It is expected that the conference will witness eminent personalities both from India and abroad (USA, Canada, Russia, Japan, Hong Kong, Turkey) delivering invited as well as tutorial talks. The prominent speakers from India were from Government R&D Organizations such as Defense Research and Development Organization, Industry and from Academic Institutions such as Indian Statistical Institute Kolkata, IIT Kharagpur, IMSc Chennai, IISc Bangalore, etc.

Three Tutorials were planned preceding the main conference to be given by Prof. Bimal Roy (ISI, Kolkata, India), Prof. M. L. Chaudhry (Royal Military College, Canada), Prof. Ram N. Mohapatra (University of Central Florida, USA), and Prof. A. Vasudevarao, IIT Kharagpur. There were seven invited talks delivered by experts like Prof. Ram N. Mohapatra (University of Central Florida, USA), Prof. R. Balasubramanian (IMSc, Chennai, India), Prof. V. A. Artamonov (Lomonosov Moscow State University, Russia), Prof. C. E. Venimadhavan (IISc, Bangalore, India), Prof. Duan Li (Chinese University of Hong Kong), Prof. Hiroshi Yanagihara (Yamaguchi University, Japan), Prof. Rifat Colak (Firat University, Turkey).

A conference of this kind would not have been possible without the support from different organizations and people across different committees. We are indebted to the Defense Research and Development Organization (DRDO), Ministry of Communication and Information Technology (MCIT), National Board for Higher Mathematics (NBHM), Cryptology Research Society of India (CRSI), Department of Science and Technology (DST), and the Council of Scientific and Industrial Research (CSIR) for sponsoring the event. Their support helped in significantly raising the profile of the conference.

All logistic and general organizational aspects were looked after locally by the Organizing Committee members from the Institute, who spent their time and energy in making the conference a success. The Technical Program Committee and External Reviewers helped in selecting the papers for presentations and working out the technical program. We acknowledge the support and help from all of them.

The organizers also express their hearty thanks to Springer for agreeing to publish the proceedings in its Mathematics and Statistics series.

Last but not the least; our sincere thanks go to all the authors who submitted papers to ICMC 2013 and to all speakers and participants.

We sincerely hope that the readers will find the proceedings stimulating and inspiring. Any constructive suggestions for improvement are welcome.

December 2013

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<http://www.springer.com/978-81-322-1951-4>

Mathematics and Computing 2013

International Conference in Haldia, India

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(Eds.)

2014, XXV, 352 p. 81 illus., Hardcover

ISBN: 978-81-322-1951-4