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Special Issue on

Intelligence Automation and Computation

Guest Editors

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FOREWORD

The field of computation, engineering, and automation has gained prominence due to advancements in computing and integrated technologies. The current time is very exciting and the years to come will witness a proliferation of the use of various advanced computing systems. At present, all the sectors of society impart great importance to research on the integration of communication and computing technology. Based on resource sharing, the integration of these technologies has shown great development potential.

The International Conference on Automation and Computation (AUTOCOM-22) took place at Graphic Era Hill University, Dehradun on December 20-22, 2022. The purpose of the conference was to establish a platform to promote interaction among the knowledge holders belonging to industry, academia, and various sections of society.

The theme of the conference was chosen to cater to all the wings of society which are influenced by the advancement in automation and computation taking place these days. The theme allowed the participants to identify and present the best research ideas. The research tracks included Data Science and Engineering, Computing Technologies, Computational Intelligence, Communication and networking, Signal and Image Processing, Intelligent Control Systems and Optimization, Robotics and Automation, Power, Energy and Power Electronics, Agriculture and computation, Healthcare and computation, AI for human interaction, etc.

More than a 100 articles from different domains were received from various researchers in India and across the world. Each article went through a double-blind peer review process by the expert reviewers of the corresponding domain. About 40% of them, which were found relevant in terms of quality innovation and novelty were selected and the authors were invited to present their work at the conference. Apart from

this, several renowned speakers (experts of specific domains) delivered keynote sessions at the conference. The keynote speakers included Dr. Ajay Kumar, Director, IRDE; Prof. (Dr.) D. K. Lobiyal, JNU, New Delhi; Dr. Unni Krishanan, Senior Scientist, IRDE; Prof. (Dr.) Nur Izura Udzir, Dean of Academics, University Putra Malaysia, Malaysia; Prof. (Dr.) Shiva Kumar Mathapathi, UC- San Diego, California, USA; Dr. Rajeev K Shakya, ADAWA Science & Technology University, Ethiopia; Dr. Ahmed Aziz, Tashkent State University of Economics, Uzbekistan and Dr. Devender Arora, PURDUE University. The conference was chaired by Dr. Karan Singh, School of Computer and Systems Sciences, JNU, New Delhi, and Satvik Vats and Vikrant Sharma, Graphics Era Hill University, Dehradun.

We are grateful to Dr. B.K. Dass, Chief Editor of the *Journal of Information & Optimization Sciences* for approving this special issue. We are also thankful to all the reviewers for their important feedback to improve the quality of the papers. We would also like to express our sincere thanks to the Graphic Era Hill University, Dehradun, for providing the best infrastructure and support to organize the conference. We are also very thankful to IRDE (DRDO), Dehradun, for supporting the conference. We hope that this special issue will be useful for the readers of the journal.

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