

Preface

This LNCS volume contains the papers presented at the 5th Swarm, Evolutionary and Memetic Computing Conference (SEMCCO-2014) held during December 18–20, 2014, at the Institute of Technical Education and Research, Siksha 'O' Anusandhan University, Bhubaneswar, Odisha, India. SEMCCO is regarded as one of the most prestigious international conference series that aims at bringing together researchers from academia and industry to report and review the latest progress in cutting-edge research on swarm, evolutionary, memetic computing, and other novel computing techniques such as neural and fuzzy computing, to explore new application areas, to design new bio-inspired algorithms for solving specific hard optimization problems, and finally to create awareness of these domains to a wider audience of practitioners.

SEMCCO-2014 received 250 paper submissions from 18 countries across the globe. After a rigorous peer-review process involving 800 reviews, 96 full-length articles were accepted for oral presentation at the conference. This corresponds to an acceptance rate of 38.4 % and is intended for maintaining the high standards of the conference proceedings. The papers included in this LNCS volume cover a wide range of topics in swarm, evolutionary, memetic, and other intelligent computing algorithms and their real-world applications in problems selected from diverse domains of science and engineering.

The conference featured four distinguished keynote speakers: Prof. Kalyanmoy Deb, Michigan State University, USA; Prof. Bidyut Baran Chaudhuri, Indian Statistical Institute, Kolkata, India; Prof. Yaochu Jin, University of Surrey, UK; and Dr. P.N. Suganthan, NTU, Singapore.

We take this opportunity to thank the authors of all submitted papers for their hard work, adherence to the deadlines, and patience with the review process. The quality of a reviewed volume depends mainly on the expertise and dedication of the reviewers. We are indebted to the Program Committee/Technical Committee members, who not only produced excellent reviews but also did these in the short time frames that they were given.

We would also like to thank our sponsors for providing all the logistic support and financial assistance. First, we are indebted to ITER Management and Administrations (faculty colleagues and administrative personnel of the School of Computer Science, School of Electronics Engineering, and School of Electrical Engineering) for supporting our cause and encouraging us to organize the conference at ITER, SOA University, Bhubaneswar, Odisha, for the second time. In particular, we would like to express our heartfelt thanks to Prof. (Dr.) Manojranjan Nayak, President, Siksha O Anusandhan Trust for providing us with the necessary financial support and infrastructural assistance to hold the conference. Our sincere thanks are due to Prof. R.P. Mohanty, Vice Chancellor, SOA University, Prof. P.K. Sahoo, Dean, ITER, Prof. M.K. Mallick, Director Administration, Prof. P.K. Nanda, Dean, Research, and Prof. P.K. Dash, Director, Research, for their continuous support. We thank Prof. Carlos A. Coello Coello

and Prof Nikhil R. Pal, the general chairs, for providing valuable guidelines and inspiration to overcome various difficulties in the process of organizing this conference. We would also like to thank the participants of this conference, who have considered the conference above all hardships. Finally, we would like to thank all the volunteers for their tireless effort in meeting the deadlines and arranging every detail to make sure that the conference could run smoothly. We hope the readers of these proceedings find the papers inspiring and enjoyable.

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