

Advances in Intelligent Systems and Computing

Volume 336

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Proceedings of Fourth International Conference on Soft Computing for Problem Solving

SocProS 2014, Volume 2

 Springer

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Preface

SocProS, which stands for ‘Soft Computing for Problem Solving’, is entering its fourth edition as an established and flagship international conference. This particular annual event is a joint collaboration between a group of faculty members from institutes of repute like NIT Silchar, IIT Roorkee, South Asian University, Delhi and Liverpool Hope University, UK.

The first in the series of SocProS started in 2011 and was held from 20 to 22 December at the IIT Roorkee Campus with Prof. Deep (IITR) and Prof. Nagar (Liverpool Hope University) as the General Chairs. JKLU Jaipur hosted the second SocProS from 28 to 30 December 2012. Coinciding with the Golden Jubilee of the IIT Roorkee’s Saharanpur Campus, the third edition of this international conference, which has by now become a brand name, took place at the Greater Noida Extension Centre of IIT Roorkee during 26–28 December 2013.

Like earlier SocProS conferences, the focus of SocProS 2014 is on Soft Computing and its applications to real-life problems arising in diverse areas of medical and healthcare, supply chain management, signal processing and multimedia, industrial optimisation, image processing, cryptanalysis, etc. SocProS 2014 attracted a wide spectrum of thought-provoking articles. A total of 103 high-quality research papers were selected for publication in the form of this two-volume proceedings.

We hope that the papers contained in this proceeding will prove helpful towards improving the understanding of Soft Computing at the teaching and research levels and will inspire more and more researchers to work in the field of Soft Computing.

The editors express their sincere gratitude to the SocProS 2014 Patron, Plenary Speakers, Invited Speakers, Reviewers, Programme Committee Members, International Advisory Committee, and Local Organizing Committee; without whose support, the quality and standards of the Conference could not be maintained. We express special thanks to Springer and its team for this valuable support in the publication of this proceedings.

Over and above, we express our deepest sense of gratitude to ‘National Institute of Technology (NIT) Silchar’ for facilitating the hosting of this conference. Our sincere thanks to all the sponsors of SocProS’ 2014.

Silchar, India
Roorkee, India
Roorkee, India
New Delhi, India
Liverpool, UK

Kedar Nath Das
Kusum Deep
Millie Pant
Jagdish Chand Bansal
Atulya Nagar

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About the Editors

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Dr. Millie Pant is an Associate Professor at the Department of Paper Technology, Indian Institute of Technology Roorkee, Roorkee, India. She has to her credit several research papers in journals of national and international repute and is a well-known figure in the field of Swarm Intelligence and Evolutionary Algorithms.

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Prof. Atulya Nagar holds the Foundation Chair as Professor of Mathematical Sciences and is the Dean of Faculty of Science, at Liverpool Hope University, Liverpool, UK. Professor Nagar is an internationally recognised scholar working at the cutting edge of theoretical computer science, applied mathematical analysis, operations research and systems engineering and his work is underpinned by strong complexity-theoretic foundations.