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Advances in Signal Processing and Intelligent Recognition Systems

Proceedings of Second International
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and Intelligent Recognition Systems
(SIRS-2015), December 16–19, 2015,
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Preface

This Edited Volume contains a selection of refereed and revised papers originally presented at the second International Symposium on Signal Processing and Intelligent Recognition Systems (SIRS-2015), December 16–19, 2015, Trivandrum, India. SIRS-2015 provided a forum for the sharing, exchange, presentation and discussion of original research results in both methodological issues and different application areas of signal processing and pattern recognition.

Credit for the quality of the symposium proceedings goes first and foremost to the authors. They contributed a great deal of effort and creativity to produce this work, and we are very thankful that they chose SIRS-2015 as the place to present it. All the authors who submitted papers, both accepted and rejected, are responsible for keeping the SIRS program vital. The program committee received 175 submissions. The committee had a very challenging task of choosing high quality submissions. Each paper was peer reviewed by at least three or more independent referees and the papers were selected based on the referee recommendations. The technical program of SIRS'15 comprises of 59 papers (41 regular papers and 18 short papers). This volume is organized into different topical sections. The papers offer stimulating insights into biometrics, digital watermarking, recognition systems, image and video processing, signal and speech processing, pattern recognition, machine learning and knowledge-based systems. Two workshops were co-located with the symposium: *workshop on Advances in Image Processing, Computer Vision, and Pattern Recognition (IWICP-2015)* and *workshop on Signal Processing for Wireless and Multimedia Communications (SPWMC'15)*.

The success of such an event is mainly due to the hard work and dedication of a number of people and the collaboration of several institutions. We are grateful to the members of the program committee for reviewing and selecting papers in a very short period of time. Many thanks to all the Chairs and their involvement and support have added greatly to the quality of the symposium. We also wish to thank all the members of the Advisory Committee, whose work and commitment were invaluable. We would like to express our sincere gratitude to local organizing committees that has made this event a success. Our special thanks also to the

keynote speakers and tutorial presenters for their effort in preparing the lectures. The EDAS conference system proved very helpful during the submission, review, and editing phases.

We wish to express our sincere thanks to Thomas Ditzinger, Senior Editor, Engineering/Applied Sciences Springer-Verlag and Janusz Kacprzyk, Series Editor for their help and cooperation.

Finally, we hope that you will find this edited book to be a valuable resource in your professional, research, and educational activities whether you are a student, academic, researcher, or a practicing professional.

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