

# Preface

CISIM 2016 was the 15th of a series of conferences dedicated to computer information systems and industrial management applications. The conference was supported by IFIP TC8 Information Systems. This year it was held during September 14–16, 2016, in Vilnius, Lithuania, at The Faculty of Economics and Informatics in Vilnius, a Branch of the University of Bialystok, Poland.

About 90 papers were submitted to CISIM by researchers and scientists from universities around the world. Most of the papers were of high quality. Each paper was assigned to three referees initially, and the decision to accept was taken after receiving two positive reviews. In cases of conflicting decisions, another expert's review was sought for a number of papers. In total, about 218 reviews were collected from the referees for the submitted papers. Because of the strict restrictions of *Springer's Lecture Notes in Computer Science* series, the number of accepted papers was limited. Furthermore, a number of electronic discussions were held between the Program Committee (PC) chairs and members to decide about papers with conflicting reviews and to reach a consensus. After the discussions, the PC chairs decided to accept for publication in the proceedings book about 68 % of the papers submitted.

The main topics covered by the chapters in this book are biometrics, security systems, multimedia, classification and clustering with application, and industrial management. Besides these, the reader will find interesting papers on computer information systems as applied to wireless networks, computer graphics, and intelligent systems.

There were also three workshops and special sessions on Rough Set Methods for Big Data Analytics (organizer: Prof. Jaroslaw Stepaniuk), Scheduling in Manufacturing and Other Applications (organizers: Profs. Ewa Skubalska-Rafajłowicz and Wojciech Bożejko), and Intelligent Distributed Systems IDS (organizer: Prof. Jerzy Balicki).

We are grateful to the five esteemed speakers for their keynote addresses. The authors of the keynote talks were Profs. Mirosława El Fray (West Pomeranian University of Technology, Poland), Jaap van den Herik (Leiden University, The Netherlands), Nobuyuki Nishiuchi (Tokyo Metropolitan University, Japan), Andrzej Skowron (Polish Academy of Sciences), and Qiang Wei (Tsinghua University in Beijing, China). Also Prof. Bohdan Macukow from Warsaw University submitted a very interesting invited paper. All the keynote and invited abstracts have been included in the proceedings.

We would like to thank all the members of the PC and the external reviewers for their dedicated efforts in the paper selection process. We also thank the honorary chairs of the conference, Profs. Ryszard Tadeusiewicz and Witold Pedrycz. Special thanks are extended to the members of the Organizing Committee, both the international and the local ones, and the Springer team for their great efforts to make the conference a success. We are also grateful to Andrei Voronkov, whose EasyChair system eased the submission and selection process and greatly supported the compilation of the

proceedings. The proceedings editing was managed by Jiří Dvorský (Technical University of Ostrava, Czech Republic), to whom we are indeed very grateful.

We hope that the reader's expectations will be met and that the participants enjoyed their stay in the beautiful city of Vilnius.

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