Preface

This three volume set of books includes the proceedings of the 2017 38th International Conference on Information Systems Architecture and Technology (ISAT), or ISAT 2017 for short, which will be held on September 17–19, 2017, in Szklarska Poręba, Poland. The conference was organized by the Department of Computer Science and Department of Management Systems, Faculty of Computer Science and Management, Wrocław University of Technology, Poland.

The International Conference on Information Systems Architecture has been organized by the Wrocław University of Technology from the seventies of the last century. The purpose of the ISAT is to discuss a state of the art of information systems concepts and applications as well as architectures and technologies supporting contemporary information systems. The aim is also to consider an impact of knowledge, information, computing and communication technologies on managing the organization scope of functionality as well as on enterprise information systems design, implementation, and maintenance processes taking into account various methodological, technological, and technical aspects. It is also devoted to information systems concepts and applications supporting the exchange of goods and services by using different business models and exploiting opportunities offered by Internet-based electronic business and commerce solutions.

ISAT is a forum for specific disciplinary research, as well as for multi-disciplinary studies to present original contributions and to discuss different subjects of today's information systems planning, designing, development, and implementation. The event is addressed to the scientific community, people involved in a variety of topics related to information, management, computer and communication systems, and people involved in the development of business information systems and business computer applications.

This year, we received 180 papers. The papers included in the three proceedings volumes published by Springer have been subject to a thoroughgoing review process by highly qualified peer reviewers. At least two members of Program Committee or Board of Reviewers reviewed each paper. The final acceptance rate was 56%. Program Chairs selected 101 best papers for oral presentation and

publication in the 38th International Conference on Information Systems Architecture and Technology 2017 proceedings.

The papers have been grouped into three volumes:

Part I—discoursing about topics including, but not limited to, Artificial Intelligence Methods, Knowledge Discovery and Data Mining, Big Data, Knowledge Discovery and Data Mining, Knowledge Based Management, Internet of Things, Cloud Computing and High Performance Computing, Distributed Computer Systems, Content Delivery Networks, Service Oriented Computing, and E-Business Systems, Web Design, Mobile and Multimedia Systems.

Part II—addressing topics including, but not limited to, System Modelling for Control, Recognition and Decision Support, Mathematical Modeling in Computer System Design, Service Oriented Systems and Cloud Computing and Complex process modelling.

Part III—dealing with topics including, but not limited to, Modeling of Manufacturing Processes, Modeling an Investment Decision Process, Management of Innovation, Management of Organization.

We would like to thank the Program Committee and external reviewers, essential for reviewing the papers to ensure a high standard of the ISAT 2017 conference and the proceedings. We thank the authors, presenters, and participants of ISAT 2017; without them, the conference could not have taken place. Finally, we thank the organizing team for the efforts in bringing the conference to a successful scientific event.

We devote ISAT 2017 to our friend and former ISAT Chair, Professor Adam Grzech.

September 2017   Leszek Borzemski
                                                                        Jerzy Świątek
                                                                     Zofia Wilimowska