

# **Lecture Notes in Business Information Processing**

**311**

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# Information Technology for Management

## Ongoing Research and Development

15th Conference, AITM 2017

and 12th Conference, ISM 2017, Held as Part of FedCSIS  
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Extended Selected Papers

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## Preface

Two editions of this book appeared in past two years: *Information Technology for Management* in 2016 (LNBIP 243) and *Information Technology for Management: New Ideas or Real Solutions* in 2017 (LNBIP 277).

Given the rapid developments in information technology and its applications for improving management in business and public organizations, there was a clear need for an updated version.

The present book includes extended and revised versions of a set of selected papers submitted to the 12th Conference on Information Systems Management (ISM 2017) and 15th Conference on Advanced Information Technologies for Management (AITM 2017) held in Prague, Czech Republic, during September 3–6, 2017. These conferences were organized as part of the Federated Conference on Computer Science and Information Systems (FedCSIS 2017).

FedCSIS provides a forum for bringing together researchers, practitioners, and academics to present and discuss ideas, challenges, and potential solutions in established or emerging topics related to research and practice in computer science and information systems. Since 2012, the proceedings of FedCSIS are indexed in Thomson Reuters Web of Science, Scopus, IEEE Xplore Digital Library, and other indexing services.

ISM is a forum for computer scientists, IT specialist, and business people to exchange ideas on management of information systems in organizations, and the usage of information systems for enhancing the decision-making process and empowering managers. It concentrates on various issues of planning, organizing, resourcing, coordinating, controlling, and leading the management functions to ensure a smooth operation of information systems in organizations.

AITM is a forum for all in the field of business informatics to present and discuss the current issues of IT in business applications. It is mainly focused on business process management, enterprise information systems, business intelligence methods and tools, decision support systems and data mining, intelligence and mobile IT, cloud computing, SOA, agent-based systems, and business-oriented ontologies.

For ISM 2017 and AITM 2017, we received 48 papers from 18 countries in all continents. From these, after a review process, only nine papers were accepted as full papers and 11 as short papers. In all, 13 papers of the highest quality as ranked by the Program Committee were chosen and the authors were invited to extend their papers and submit them for consideration to the LNBIP publication. Our guiding criterion for including papers in the book was the excellence of publications indicated by the reviewers, the relevance of the subject matter for the economy, and promising results. The selected papers reflect state-of-art research work that is often oriented toward real-world applications and highlight the benefits of information systems and technology for business and public administration, thus forming a bridge between theory and practice.

The papers selected to be included in this book contribute to the understanding of relevant trends of current research on information technology for management in business and public organizations. As with the two previous editions of this book, the first two parts focus on information technology and information systems for knowledge management and business transformation, whereas the third part presents research on implementation and evaluation of information systems.

Finally, the authors and I hope readers will find the content of this book useful and interesting for their own research activities. It is in this spirit and conviction that we offer our monograph, which is the result of the intellectual effort of the authors, for the final judgment of our readers. We are open to discussion on the issues raised in this book, and look forward to the polemical, or even critical, voices as to the content and form.

January 2018

Ewa Ziemia

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