## Contents

### AKTB Workshop

A Framework for Optimising Business Rules .......................... 5  
*Alan Dormer*

A Social Recommendation Mechanism for Crowdfunding .............. 18  
*Yung-Ming Li, Jyh-Hwa Liou, and Yi-Wen Li*

Principal Sources for the Identification of Tacit Knowledge  
Within an IT Company, as Part of an Intelligent System ............. 26  
*Justyna Patalas-Maliszewska and Irene Krebs*

Sentiment-Analysis for German Employer Reviews .................... 37  
*Jennifer Abel, Katharina Klohs, Holger Lehmann, and Birger Lantow*

Product Knowledge Management Support for Customer-Oriented  
System Configuration .......................................................... 49  
*Alexander Smirnov, Nikolay Shilov, Andreas Orosz, Mario Sinko,  
and Thorsten Krebs*

Transformation Algorithms of Knowledge Based UML Dynamic  
Models Generation .............................................................. 59  
*Ilona Veitaite and Audrius Lopata*

Analysis of Users Buying Behaviour to Improve the Coupon Marketing  . 69  
*František Babič and Ludmila Pusztová*

Identifying Lithuanian Native Speakers Using Voice Recognition .......... 79  
*Laurynas Dovyda and Vytautas Rudžionis*

Dereferencing Service for Navigating Enterprise Knowledge Structures  
from Diagrammatic Representations ........................................ 85  
*Mihai Cinpoeru*

DEA Based Algorithm for EU Healthcare Efficiency Evaluation .......... 97  
*Dalia Kriksciuniene and Virgilius Sakalauskas*

### BITA Workshop

The Effect of Strategic Alignment of Complementary IT and Organizational  
Capabilities on Competitive Firm Performance .......................... 115  
*Rogier van de Wetering and Patrick Mikalef*
Two Stage Business and IT-Alignment: Initial Experiences from Portal Implementation for Non-traditional Study Formats of a University

Kurt Sandkuhl and Holger Lehmann

The Impact of Digitization on Information System Design - An Explorative Case Study of Digitization in the Insurance Business

Rainer Schmidt, Michael Möhring, Florian Bär, and Alfred Zimmermann

Evaluation of Application Architecture Change Cases: Building Blocks Reusability Assessment Method

Rūta Pirta and Jānis Grabis

Triple-Agile: A Paradigm for Cloud Based SME Process Support

Ligita Businska, Maris Dargis, Marite Kirikova, and Edgars Salna

SESSISE Workshop

Human-Computer Cloud for Smart Cities: Tourist Itinerary Planning

Case Study

Alexander Smirnov, Andrew Ponomarev, Nikolay Teslya, and Nikolay Shilov

On Battery Management Strategies in Multi-agent Microgrid Management

Roozbeh Morsali, Sajad Ghorbani, Ryszard Kowalczyk, and Rainer Unland

Doctoral Consortium

Continuous Requirements Engineering Support Environment Model in Methodologically Heterogeneous Projects

Anita Finke

Enrichment of Information in Multilingual Wikipedia Based on Quality Analysis

Włodzimierz Lewoniewski

Hazard Index for Assessment of Reliability of Supply and Risk in Maritime Domain

Milena Stróżyna

Behavioural Profiling Authentication Based on Trajectory Based Anomaly Detection Model of User’s Mobility

Piotr Kahuźny

Social Media – Profiling Users Movement Trajectory and Visited Places

Agata Szyszko
Second National Congress on Information Systems

Classification and Preprocessing in the Stock Data .......................... 269  
    Przemysław Juszczuk and Jan Kozak

Relative Quality Assessment of Wikipedia Articles in Different Languages Using Synthetic Measure .......................... 282  
    Włodzimierz Lewoniewski and Krzysztof Węcel

The Evolution of Business Information Systems and the BIS

Completeness and Reliability of Wikipedia Infoboxes in Various Languages .................................................. 295  
    Włodzimierz Lewoniewski

Author Index ................................................................. 307