

## Preface

The International conference on Business Informatics Research (BIR) focusses on fields of business informatics. In particular, it targets the research that bridges management and engineering aspects and facilitates communication between scientific and practical applications. This volume contains publications presented at the pre-BIR forum, workshops and doctoral consortium of the BIR 2017 conference, organized in Copenhagen, Denmark, 28-30 August, 2017.

This volume includes publications presented at the pre-BIR forum day (BIR 2017), the 2nd Workshop on Managed Complexity (ManComp 2017), and the doctoral consortium of the 16th International Conference on Business Informatics Research (BIR 2017).

The 1st pre-BIR forum day was organized by Björn Johansson. The forum day had as its focus to discuss and develop papers submitted to the BIR conference in a workshop setting. From the submitted papers for the BIR conference 22 papers were invited for resubmissions to the pre-BIR forum. After dealing with reviews authors of 12 papers submitted their papers and presented them at the pre-BIR forum.

The 2nd Workshop on Managed Complexity (ManComp 2017) was organized by Peter Forbrig, Marite Kirikova and Charles Moller. The workshop had its focus on managing complexity. Managing complexity has a long tradition for algorithms and general problems. However nowadays informatics requires managing complexity also at different levels and configurations of social, physical, enterprise, software and hardware systems. The workshop focused on approaches and methods for managing complexity in the domain of applied informatics that may concern an interplay of systems and ecosystems of various sizes and substances. Its purpose was to share and transfer knowledge on complexity identification, representation, controlling and reduction as well as to exploit possible synergies in development of innovative complexity handling strategies, approaches and methods. The goal of the workshop, in which four papers were presented, was to bring together researchers and practitioners to discuss theoretical approaches and real-life case studies featuring success and/or failure stories in managing complexity.

This year's BIR Doctoral Consortium was organized by Atanu Chaudhuri. The BIR 2017 DC provided doctoral students with a good place for receiving an early feedback on their progress from the field experts and experienced researchers.

I would like to thank all Workshop Chairs and their Program Committee members for their diligence in selecting the papers and ensuring their high scientific quality.

Björn Johansson  
August 2017



## 2nd Workshop on Managed Complexity (ManComp 2017)

### ManComp 2017 Workshop Co-Chairs

|                 |                                   |
|-----------------|-----------------------------------|
| Marite Kirikova | Riga Technical University, Latvia |
| Peter Forbrig   | University of Rostock, Germany    |
| Charles Moller  | Aalborg University, Denmark       |

### ManComp 2017 Workshop Committee Members

|                      |   |
|----------------------|---|
| Clara Bassano        | Panthenope University of Naples, Italy              |
| Albertas Caplinskas  | Institute of Mathematics and Informatics, Lithuania |
| Bertrand, David      | Ecole Centrale de Lyon, France                      |
| Peter Forbrig        | University of Rostock, Germany                      |
| Janis Grundspenkis   | Riga technical University, Latvia                   |
| Markus Helfert       | Dublin City University, Ireland                     |
| Ebba Þóra Hvannberg  | Iceland University, Iceland                         |
| Marite Kirikova      | Riga Technical University, Latvia                   |
| Christophe Kolski    | University of Valenciennes, France                  |
| Paula Kotze          | CSIR Meraka Institute Pretoria, South Africa        |
| Henry Linger         | MONASH University, Australia                        |
| Oscar Pastor Lopez   | Politechnical University of Valencia, Spain         |
| Charles, Moller      | Aalborg University, Denmark                         |
| Malgorzata Pankovska | University of Economics in Katowice, Poland         |
| Jose Perez Rios      | University of Valladolid, Spain                     |
| Khuram Shahzad       | University of the Punjab, Pakistan                  |
| Chris Stry           | University of Linz, Austria                         |
| Bengt Wangler        | Stockholm University, Sweden                        |
| Marco Winckler       | Paul Sabatier University Toulouse, France           |
| Jelena Zdravkovic    | Stockholm University, Sweden                        |
| Iryna Zolotaryova    | Kharkiv National University of Economics, Ukraine   |