


Lecture Notes in Business Information Processing

457

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Eduard Babkin · Joseph Barjis ·
Pavel Malyzhenkov · Vojtěch Merunka (Eds.)

Model-Driven Organizational and Business Agility

Second International Workshop, MOBA 2022
Leuven, Belgium, June 6–7, 2022
Revised Selected Papers

Editors

Eduard Babkin 
National Research University, Higher School
of Economics
Nizhny Novgorod, Russia

Pavel Malyzhenkov 
National Research University, Higher School
of Economics
Nizhny Novgorod, Russia

Joseph Barjis
San Jose State University
San Jose, CA, USA

Vojtěch Merunka 
Czech Technical University in Prague
Prague, Czech Republic

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Preface

The current reality in the corporate world demands enterprises to be agile in every aspect. This implies agility as an organization, agility in responding to changes, and agility in strategy and execution. All this culminates in agility in delivering products (solutions) to the customer, which has fostered development of a myriad of agile frameworks and agile development approaches. However, agile practice is often driven by mere pragmatics and relevance, that is, applying agile with little research and, often, little rigor. This presents opportunities for researchers to look at the agile field through the lens of research and bring more rigor to it.

The experience of recent years shows that software engineering or any system development has an essential intersection with business engineering, management consulting, customer engagement, and many more. This makes modern software or any system development a cross-functional activity, and this recognition brings software engineering beyond merely writing program code. In fact, agile practice emphasizes that requirements emerge as the software system goes through the development process. Agile practice does not even assume that the requirements must be completely and accurately identified at the beginning of the development life cycle, but rather continuously explored.

The International Workshop on Model-driven Organizational and Business Agility (MOBA) was launched in 2021 with the purpose of encouraging scientific inquiries into agile practice and agility in a wider context, that is, an entire enterprise. In doing so, the role of models and modeling was especially taken into the focus.

The central tenet of an agile mindset is to develop a capability to rapidly respond to changes and to reduce uncertainty by iteratively exploring the solution context and scope and incrementally delivering value to the customer. In this sense, agile practice has equal merit whether developing an IT application, i.e., software engineering, or non-IT functions such as marketing, operations, human resources, legal work, etc. However, in its current state, agile practice is predominantly applied in the IT domain as it is applied in all stages of the life cycle of modern IT systems. As such, only a fraction of the true potential that agile practice can bring to enterprises is utilized. Therefore, the vast unexplored opportunities and the corresponding stasis in agile practice would greatly benefit from scientific inquiry, research, and rigorous solutions.

To explore these opportunities and address the potential challenges, the MOBA workshop aims at developing a multi-disciplinary community of researchers and practitioners, which will consolidate the effort in detecting, modeling, improving, and disseminating rigorous agility practices and theories. In this regard, various agility phenomena will be studied from a systemic viewpoint, distinguishing between endogenous agility inside an organization and exogenous agility in the form business connections with external parties. Common principles of model-driven research and engineering of organizational or technical artefacts will guarantee consistency and interoperability of the results obtained.

To model and study organizational and business agility in a system context we inevitably should join together many adjacent topics such as enterprise architecture, semantic interoperability, model-driven design of information systems, models validation, business value co-creation, and more.

As a community, MOBA aims to become an incubator and platform for nascent and innovative ideas that are in their infancy and need expert discussion, insights, and critical evaluation by peers. In this sense, MOBA facilitates the participation and success of junior researchers. This year, MOBA continued its Master and Doctoral Consortium, which attracted young researchers to present and discuss their work, and receive feedback and inspiration from peers.

MOBA 2022 was held in conjunction with the 34th International Conference on Advanced Information Systems Engineering (CAiSE 2022) and took place during June 6–7, 2022. The workshop received 22 submissions, and each paper underwent triple-blind peer reviews by 3 members of the Program Committee. As a result, 10 papers were accepted for presentation at the workshop and publication in this proceedings volume. In addition, one keynote paper is included.

The MOBA 2022 organizers would like to express their sincere thanks to the emerging MOBA community: the authors, the Program Committee, and the CAiSE organizers and chairs for their enthusiasm and devotion, as well as all participants for their contributions. We are already looking forward to the next edition of MOBA to meet again and bring new researchers!

June 2022

Eduard Babkin
Joseph Barjis
Pavel Malyzhenkov
Vojtěch Merunka

Organization

MOBA 2022 was organized in cooperation with CAiSE 2022 (Leuven, Belgium).

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Contents

Workshop Papers

Cross-Pollination of Personas, User Stories, Use Cases and Business-Process Models	3
<i>Peter Forbrig and Anke Dittmar</i>	
Proposal for Determining the Angular Position of Artificial Intraocular Lens in the Human Eye	19
<i>Martin Fus, Josef Pavlicek, Sarka Pitrova, and Michal Hruska</i>	
Agile Game in Practice	27
<i>Ondřej Havazík, Petra Pavlíčková, and Jan Rydval</i>	
Formulation of Agile Business Rules for Purchasing Control System Components Process Improvement	41
<i>A. Maron and M. Maron</i>	
A Business Intelligence Tool for Explaining Similarity	50
<i>Simona Colucci, Francesco M. Donini, Nicola Iurilli, and Eugenio Di Sciascio</i>	
Analysis of Data Center Development Problems in the Era of Digital Transformation	65
<i>Andrew V. Toutov, Natalia V. Toutova, and Anatoly S. Vorozhtsov</i>	
A Theoretical Model for Defining Prerequisites of the IT-Business Alignment in the Social Dimension	73
<i>Roman Khlebnikov and Pavel Malyzhenkov</i>	
Design and Development of a Reconfigurable Enterprise Financial Reporting Service	84
<i>Boris Ulitin, Eduard Babkin, Tatiana Babkina, and Igor Ulitin</i>	
Using Self-paced Multimedia Courses to Create Individual Student Trajectories	100
<i>A. S. Adzhemov, I. V. Manonina, and V. V. Shestakov</i>	
Application of an Adaptive Domain-Specific Interface in a Decision-Support System for Planning Railroad Technical Services	110
<i>Boris Ulitin, Eduard Babkin, and Tatiana Babkina</i>	

Invited Paper

IT Crisisology: New Discipline for Business Agility 127
Sergey V. Zykov

Correction to: Proposal for Determining the Angular Position of Artificial
Intraocular Lens in the Human Eye C1
Martin Fus, Josef Pavlicek, Sarka Pitrova, and Michal Hruska

Author Index 139