

# 14<sup>th</sup> IFIP WG 8.1 Working Conference on the Practice of Enterprise Modelling (PoEM) Riga (Latvia), November 2021

## Forum Proceedings

### Preface

The 14th IFIP WG 8.1 Working Conference on the Practice of Enterprise Modeling (PoEM 2021), aimed at improving the understanding of the practice of Enterprise Modeling. The special focus in 2021 was on the use of Enterprise Modeling and Enterprise Architecture towards ensuring sustainability and resilience of enterprises and societies. PoEM 2021 took place during November 24–26, 2021 and was organized by the Riga Technical University, Latvia. Due to the COVID-19 pandemic it had to be organized as virtual conference.

#### *PoEM 2021 Forum*

PoEM 2021 Forum continued the tradition of previous editions as a place at the PoEM working conference of presenting and discussing new ideas, challenges, methods, techniques, and tools relevant for Enterprise Modeling. The Forum had the aim to be an open platform with a high level of interactivity between presenters and participants. This was organized as combination of speed talks, digital wall and discussion sessions. In an initial online session, all accepted Forum papers were briefly introduced in a 2-minute speed talk. On a digital wall, the papers were made available with recorded 10-minute presentations. Interested researchers had the possibility to watch the presentations, post comments and get in touch with the authors. An additional interactive session offered the possibility to discuss individual papers with in plenum or in separate break-out rooms.

In total, we received 13 submissions for the Forum. Based on three reviews by members of the Program Committee for the Forum, we selected 8 papers (61% acceptance rate). The ninth paper included in this volume is a summary of the panel discussion that took place at the conference on the topic of how to build a perfect enterprise modeling method.

During the PoEM Forum a best paper was selected. The decisive factor was the score the paper received during the review process by the program committee members. The best paper of PoEM 2021 Forum is:

- Digital Optimization in Action: From Models towards an Industrial Application by Anna Sumereder and Robert Woitsch

#### *Working Session on the Future of Enterprise Modeling*

In addition to the paper sessions and panel, PoEM 2021 also included a working session on the Future of the research area of Enterprise Modeling and Enterprise Architecture organized by Erik Proper and Janis Stirna. Among the key issues discussed were: 1) the need to establish a series of proceedings for publishing work stemming from application in practice, such as case studies and experience reports involving industry representatives; and 2) the need to stimulate the collaboration between various research groups such as GI EMISA, GI MobIS, AIS, IEEE TCBIS, IFIP WG 8.1 and conferences such as PoEM, EMMSAD, CBI, and EDOC. To this end a proposal to form a task force on the Enterprise Modeling and Enterprise Architecture under the auspices of IFIP Working Group 8.1 Design and Evaluation of Information Systems was put forward. It will be discussed at the next business meeting of WG 8.1.

#### *PoEM Best Paper*

Also, during the PoEM conference the organizers granted a best paper award to Nikolay Shilov, Walaa Othman, Michael Fellmann and Kurt Sandkuhl for their paper on *Machine Learning-Based*

*Enterprise Modeling Assistance: Approach and Potentials*. The best paper selection process considered four papers, which received the highest scores by the program committee members. The honorary mentions are the following papers:

- *Enterprise Coherence with GEA -- A 15 Year Co-evolution of Practice and Theory*  
by Henderik A. Proper, Roel Wagter and Joost Bekel.
- *Upper-bounded Model Checking for Declarative Process Models*  
by Nicolai Schützenmeier, Martin Käppel, Sebastian Petter and Stefan Jablonski.
- *A Foundation for Design, Analysis, and Management of Digital Business Ecosystem through Situational Method Engineering*  
by Chen Hsi Tsai and Jelena Zdravkovic.

Last but not least, we thank the PoEM Forum Program Committee and the PoEM 2021 organizing committee at Riga Technical University for their contributions and hard work.

December, 2021

Balbir Barn  
Kurt Sandkuhl  
Estefanía Serral Asensio  
Janis Stirna

## **Organization of PoEM 2021 Forum**

### **PoEM Forum Program Chairs**

Balbir Barn, Middlesex University London, United Kingdom  
Kurt Sandkuhl, Rostock University, Germany

### **PoEM Program Chairs**

Estefanía Serral Asensio, KU Leuven, Belgium  
Janis Stirna, Stockholm University, Sweden

### **PoEM Forum Program Committee**

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