

Preface

A number of factors contribute to challenges in enterprises study spanning from organizational complexity to intricacy of business processes and sophistication in workflows. While these are only internal factors, there are a myriad external factors and uncertainties such as competition, politics, emergence of innovative technologies, and so on. All this raises constant challenges for enterprises to change and redesign. In doing so, efficiency is the primary indicator enterprises use as a measuring stick while producing tangible and intangible goods. For studying efficiency or, in general, studying dynamic behavior of any aspect of an enterprise and impact of external factors, quantitative methods have emerged as a viable tool. Among these quantitative tools, simulation is becoming more and more popular tool. With simulation, the importance of modeling or conceptual modeling also becomes of paramount importance.

The Enterprise and Organization Modeling and Simulation (EOMAS) Workshop was founded to become a forum among researchers and practitioners to share their research and practical findings. In this forum we encourage dissemination of research results under a more generic umbrella called enterprise engineering.

Like any system, an enterprise is an object of continuous improvements, redesign, and reimplementation. The departure point for any design or redesign activity pertinent to an enterprise is first to understand the enterprise business processes. Therefore, in the overall enterprise engineering activities, business process modeling plays a central role. However, an extended enterprise and organizational study involves both analysis and design activities, in which not only modeling but also simulation plays a prominent role. Therefore this growing importance of modeling and simulation in the context of enterprises is attracting the attention of researchers. Today, modeling and simulation are the tools and methods that are effective, efficient, economic, and widely used in enterprise engineering, organizational study, and business process management, especially when inspired and/or combined with other approaches and paradigms.

Complementary insights of modeling and simulation in enterprise engineering constitute a whole cycle of study of enterprises. For monitoring and studying business processes and the interaction of actors in a realistic and interactive environment, simulation has proven to be a powerful tool and method, especially if simulation is supported with rich animation and gaming elements. In order to explore these topics, address the underlying challenges, find and improve solutions, and demonstrate applications of modeling and simulation in the domain of enterprise, its organization, and underlying business processes, peer-reviewed papers were accepted for presentation at EOMAS 2015, which was held during June 8–9, 2015, Stockholm, Sweden.

June 2015

Joseph Barjis
Robert Pergl

Enterprise and Organizational Modeling and Simulation
11th International Workshop, EOMAS 2015, Held at
CAiSE 2015, Stockholm, Sweden, June 8-9, 2015,
Selected Papers
Barjis, J.; Pergl, R.; Babkin, E. (Eds.)
2015, X, 233 p. 83 illus., Softcover
ISBN: 978-3-319-24625-3