Dear reader,

The field of Enterprise Architecture is gaining momentum. In several workshops and conferences, increasing attention is paid to this field. As a field of research, it brings together aspects from the field of management sciences, organisational sciences, information science and computing science.

This special issue on Enterprise Architecture brings together five papers covering several core aspects of the field, ranging from conceptual foundations to the practical role of enterprise architecture in projects and software development. In their paper “The role of Enterprise Architecture in Enterprise Engineering”, Jan Dietz and Jan Hoogervorst take a fundamental look at the potential role of enterprise architecture in enterprise engineering and transformation. An exploratory analysis of usage scenarios of enterprise architecture in the context of enterprise transformations is provided by Stephan Aier, Christian Riege, Robert Winter in their paper “Classification of Enterprise Architecture Scenarios – An Exploratory Analysis”.

Several models are produced and handled when creating and using enterprise architectures. In his paper, ‘Evaluation of enterprise architecture modelling’, Frank Wolff studies the effectiveness, balancing costs and quality of these architecture models.

Enterprise architectures have a directing role to play towards projects implementing enterprise transformation, as well as software architectures for the applications supporting the business processes. In “Best Practices for Business and Systems Analysis in Projects Conforming to Enterprise Architecture”, Ralph Foorthuis and Sjaak Brinkkemper discuss aspects of the relationship between enterprise architectures and projects adding towards the realisation of the architecture. In their paper “On the Interplay of Organizational Architecture and Software Architecture”, Wojciech Ganczarski and Robert Winter bridge the gap between the organisational aspect of enterprise architecture and the underlying software architectures.

When we look at the commonality of many of these papers, we observe that the use of models is central to this field:

- models representing conceptual foundations for reasoning about the elements of an enterprise architecture,
- models representing high-level designs of (aspects of) an enterprise, and
- models representing regulations, guidelines or principles, limiting the design space of architects.

In many engineering-related fields, modelling is a prime instrument, and the maturity of these fields can perhaps be judged by the establishment of standardised ways of working. In software engineering, the advent of UML [1] and the Unified Process [2] proved to be important milestones. In enterprise architecture, we could be on the verge of a similar breakthrough, with an increasingly clearer understanding of the role of enterprise architecture [3], the rapidly growing support for The Open Group’s TOGAF [4] as a standardised method in favour of proprietary, vendor-specific solutions, and the increasing usage of ArchiMate [5] (now also under the aegis of The Open Group) as a modelling language for enterprise architecture. Of course, neither of these is perfect, but the popularity of such open methods is a sure sign of a maturing field and they provide a common ground for further research into this exciting area.

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References


