SIG MoBIS
Special Interest Group
on Modelling Business Information Systems

SIG EMISA
Special Interest Group
on Design Methods for Information Systems

Enterprise Modelling and Information Systems Architectures

An International Journal

Volume 10 | No. 1 **December 2015**

Special Issue on Service Systems and Applications

German Informatics Society

Table of Contents

Editorial Preface **2**

Regular Paper

Antonia Albani **4** Theory-Driven Reverse Engineering of Organisations

Special Issue on Service Systems and Applications

Guest Editorial: Service Modeling **25**

Michael Becker and Stephan Klingner **27** Linking Process Models and Service Configuration

Sönke Duckwitz, Andreas Petz, Christopher M. Schlick **49** Modelling and Simulation of Knowledge-Intensive Service Systems with Design Structure Matrices

Patrick Delfmann, Michael Hübers **67** Towards Supporting Business Process Compliance Checking with Compliance Pattern Catalogues – A Financial Industry Case Study

Volker Nissen, Dominik Jung, Mathias Petsch, Claus-Peter Präg **89** Recommendations for a general IT Service Catalogue structure

Alexander Fuchs, Sebastian Bittmann, Deniz Özcan **109** Designing Customer-Specific Product-Service Systems in B2B Markets – A Consecutive Framework for Development and Configuration Management

Imprint **125**

Editors-in-Chief and Editorial Board **126**

Editorial Preface

The current issue of the "Enterprise Modelling and Information Systems Architectures" journal marks its ten-year anniversary. During the last decade the journal evolved from a print to an electronic medium, and from closed to delayed to open access. Founded in 2005 as a peer-reviewed scholarly journal for the conceptual modelling research community, the journal will continue as a publisher-independent community effort supported by the *Special Interest Group on Modelling Business Information Systems* (SIG MoBIS) and the *Special Interest Group on Design Methods for Information Systems* (SIG EMISA) of the German Informatics Society (GI).

On behalf of the editorial board and the past editors-in-chief, we express our gratitude to the authors, reviewers, associate editors, and executive editors in the editorial office who participated in shaping and developing the journal over the last decade. We thank the authors for submitting their manuscripts, the reviewers for investing their time in providing constructive reviews, and the members of the editorial board for guiding review processes as well as for providing numerous high-quality reviews themselves.

Having been (re-)appointed by the steering committees of SIG EMISA and SIG MoBIS as editors-in-chief, we are looking forward to developing the journal together with you– remember that the journal is a community effort–and, hence, we would like to encourage you to actively contribute to the EMISA journal to make it a truly extraordinary outlet for the scientific community. Please send us an email to *eic@emisa-journal.org* if you have any feedback, topic for a special issue, or other input.

First steps have been already taken to develop the journal further: First and foremost, all past as well as future volumes of the EMISA journal will be published online on the newly setup journal website at *http://emisa-journal.org*, turning EMISA into a true **open access journal** for which authors neither have to pay any fee nor need to grant exclusive rights to any publisher. Indeed, we encourage authors to license their published work under a Creative Commons licence (see the *Author Guidelines and Submission Preparation List* on the website and register with the site to submit your manuscripts). As another key change, the LaTeX document class for EMISA is currently under revision and the upcoming revision is scheduled to be released in Q4/ 2015 with numerous extensions for authors. We will announce the release on the website.

Our new editorial statement on the website reads as follows: "*Enterprise Models and Information Systems Architectures should be researched from different perspectives, angles, and backgrounds, with a multitude of theoretical and practical lenses and mindsets. We welcome and encourage a broad understanding of Enterprise Modelling research and intend to further its many different facets, theoretical foundation and experiential body of knowledge.*"

EMISA targets researchers, practitioners and students with an interest in state-of-the-art conceptual modelling research and its applications. The journal publishes thoughtful, well developed articles on all facets of analysing, designing, investigating, evaluating and applying conceptual models, enterprise models, enterprise and information systems architectures, corresponding modelling languages and modelling methods, and is open to submissions from all scientific disciplines and fields. The editorial board imposes no restrictions regarding the research paradigm or research method, encourages multi- and transdisciplinary research contributions, and welcomes

submissions from for-profit, nonprofit and government organisations in a dedicated 'Experience Report' section.

We are looking forward to further evolving the EMISA journal with you, and thank Klaus Turowski for his three years tenure as coeditor-in-chief (together with Manfred Reichert).

Manfred Reichert and Stefan Strecker

Editors in Chief

Editors' contact information:

Prof. Dr. Manfred Reichert
Institute of Databases and
Information Systems
Ulm University
James-Franck-Ring
89081 Ulm
Germany
manfred.reichert@uni-ulm.de

Prof. Dr. Stefan Strecker
Information Systems Development
Research Group
University of Hagen
Universitätsstraße 41
58084 Hagen
Germany
stefan.strecker@fernuni-hagen.de