

Enterprise Modelling and Information Systems Architectures

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September 22-23, 2011, Hamburg, Germany

EMISA 2011

4th International Workshop on

Enterprise Modelling and Information Systems Architectures

Concepts and Applications

Call for Participation

About the Workshop

The 4th International Workshop on Enterprise Modelling and Information Systems Architectures is jointly organized by the GI Special Interest Group on Modelling Business Information Systems (GI-SIG MoBIS) and the GI Special Interest Group on Design Methods for Information Systems (GI-SIG EMISA). The workshop will be a full 2-day event featuring presentations from academia and practice organised in 12 full papers and 12 research-in-progress papers.

Detailed information as well as registration fees and registration are available at:

www.wiso.uni-hamburg.de/conferences/emisa2011

Program Chairs

Markus Nüttgens
University of Hamburg, Germany

Oliver Thomas
University of Osnabrück, Germany

Barbara Weber
University of Innsbruck, Austria

Location

The 4th International Workshop on Enterprise Modelling and Information Systems Architectures (EMISA'11) will be hosted by the University of Hamburg, Germany. EMISA'11 is co-located with the IFIP 8.6 Working Conference 2011. IFIP 8.6 website: www.ifip86.uni-hamburg.de.



Bild: www.elblicht.net

Co-located Events

IFIP WG 8.6 Conference, see www.ifip86.uni-hamburg.de

Meetings of the Management Boards of GI-SIG MoBIS and GI-SIG EMISA



SIG EMISA

Special Interest Group
on Design Methods for Information Systems

SIG | MoBIS

Special Interest Group
on Modelling Business Information Systems

Thursday, September 22, 2011

| Track 1

| Track 2

Keynote 1: Information Generation, Management and Use in Disaster Management:
A Transformation from "Command and Control" to "Repertoires of Collaboration" – Deborah Bunker

Session 1: Enterprise Architecture and its Applications

Enterprise Architecture as an Instrument of Strategic Control
Beate Hartmann

*Towards a More Integrated EA Planning: Linking
Transformation Planning with Evolutionary Change*
Stephan Aier, Sabine Buckl, Bettina Gleichauf, Florian Matthes, Christian
Schweda, Robert Winter

*Applying Soft Systems Methodology in Enterprise Architecture
Creation Workshops*
Agnes Nakakawa, Patrick Van Bommel, Erik Proper

**Session 2: Organizational and Human Aspects in
Process Design**

Creative Personality and Business Process Redesign
Kathrin Figl, Barbara Weber

Workflow Nets with Roles
Sebastian Mauser, Robin Bergenthum, Jörg Desel

Abstractions in Actor and Activity Modelling
Matthias Wester-Ebbinghaus, Daniel Moldt

**Session 1: Advancements and New Avenues in Process
Modelling**

*Integration of Process Constraints from Heterogeneous
Sources in Process-Aware Information Systems*
Stefanie Rinderle-Ma, Juergen Mangler

Assessing Process Models with Cognitive Psychology
Stefan Zugel, Jakob Pinggera, Barbara Weber

*Eye Tracking Experiments in Business Process Modelling:
Agenda Setting and Proof of Concept*
Frank Hogrebe, Nick Gehrke, Markus Nüttgens

Session 2: Conceptual Model Analysis

*A Generic Multi-purpose Conceptual Model Analysis Approach
– Conceptual Specification and Application*
Sebastian Herwig, Łukasz Lis, Matthias Steinhorst, Jörg Becker, Patrick
Delfmann

*Fast Pattern Matching in Conceptual Models – Evaluating and
Extending a Generic Approach*
Hanns-Alexander Dietrich, Matthias Steinhorst, Jörg Becker, Patrick Delfmann

System Architecture Validation with UML
André Pflüger, Wolfgang Golubski, Stefan Queins

Panel 1: IT-Governance and -Sustainability

Social Event: Senate Reception at the Hamburg Town Hall

Friday, September 23, 2011

| Track 1

| Track 2

Keynote 2: Business Process Modelling – A few Suggestions for a Future Research Agenda – Ulrich Frank

Session 1: Model and Information Quality

*Some Guidelines for the Conception of Domain-Specific
Modelling Languages*
Ulrich Frank

*Tool Support for the Comprehensive Modelling of Quality
Information within Business Process Models*
Robert Heinrich, Alexander Kappe, Barbara Paech

*Towards Process-oriented Information Logistics: Why Quality
Dimensions of Process Information Matter*
Bernd Michelberger, Bela Mutschler, Manfred Reichert

Session 1: Applications of Models in Practice

*Towards Automated Financial Process Auditing: Aggregation
and Visualization of Process Models*
Niels Mueller-Wickop, Martin Schultz, Nick Gehrke, Markus Nüttgens

*Understanding IT-Management and IT-Consulting Teaching as
Product Service System: Application of an Engineering Model*
Matthias Boehm, Carl Stolze, Oliver Thomas

*Modelling Choreographies: BPMN 2.0 versus BPEL-based
Approaches*
Oliver Kopp, Frank Leymann, Sebastian Wagner

Panel 2: The Diffusion of Research Results in the Age of Web 2.0

**Session 2: Information Extraction and Semantic
Descriptions**

*A Reference Architecture for Semantic Content Management
Systems*
Fabian Christ, Benjamin Nagel

*Enriched Service Descriptions Using Business Process
Configurations*
Mohammed Abujarour, Ahmed Awad

Process Model Verification with SemQuu
Michael Fellmann, Oliver Thomas

**Session 2: Partner Selection and Value Creation in
Networks**

Developing a Cloud Provider Selection Model
Jonas Repschläger, Stefan Wind, Rüdiger Zarnekow, Klaus Turowski

*Designing a Risk-based Partner Selection Process for
Collaborative Cloud Computing Environments*
Benedikt Martens, Novica Zarvic, Frank Teuteberg, Oliver Thomas

*Introducing a Co-Creation Perspective to Service Business
Models*
Andreas Zolnowski, Martin Semmann, Tilo Böhmman

September 22-24, 2011, Hamburg, Germany

IFIP WG 8.6 Conference

Governance and Sustainability in Information Systems - Managing the Transfer and Diffusion of IT -

Call for Participation

About the Conference

The conference focus will be on theories, tools and best practices of governance and sustainability in information systems. It will be a full 3-day event featuring presentations from academia and practice.

Detailed information as well as registration fees and registration are available at:

www.ifip86.uni-hamburg.de

General Chair

Karlheinz Kautz, Copenhagen Business School

Program Co-Chairs

Markus Nüttgens, Hamburg University
Andreas Gadatsch, Bonn-Rhine-Sieg University of Applied Sciences

Organizing Chairs

Markus Nüttgens, Hamburg University
Ingrid Schirmer, Hamburg University

HISDoC Chair:

Tilo Böhmann, Hamburg University

Location

The IFIP WG 8.6 Conference will be hosted by Hamburg University, Germany.

Social Events

Senate reception (Hamburg town hall, September 22th)
Hamburg Evening (Barbecue at the Elbe beach, September 23rd)

Co-located Events

4th International Workshop on Enterprise Modelling and Information Systems Architectures (EMISA'11)
www.wiso.uni-hamburg.de/conferences/emisa2011

Meetings of the Management Boards of GI-SIG MoBIS and GI-SIG EMISA

Hamburg IS Doctoral Consortium (HISDoC)

Academic Program Overview

Thursday, September 22

Keynote 1

Deborah Burkner, Information Generation, Management and Use in Disaster Management: A Transformation from „Command and Control“ to „Repertoires of Collaboration“

Research Track: Governance

- (1) Arisa Shollo, Using Business Intelligence in IT Governance Decisionmaking
- (2) Mario Schaaschmidt, Matthias Bertram and Harald von Kortzfleisch, Exposing Differences in Governance Approaches in Single and Multi Vendor Open Source Software Development
- (3) Jan Pries-Heje and Ann-Dorte Fladkjær Nielsen, Innovative Project Idea Maturation: An important part of Governance

Research in progress/ Practice Track: Governance & Sustainability 1

- (1) Chadi Aoun, Savanid Vatanasakdakul, Yang Chen, IT Governance Framework Adoption: Establishing Success Factors
- (2) Hannes Schlieter, Stephan Bögel, Werner Esswein, A Service Oriented Method For Health Care Network Governance
- (3) Jörg Becker, Christoph Ahrendt, André Coners, Burkhard Weiß and Axel Winkelmann, Modeling and Analysis of Business Process Compliance
- (4) Claudia Loebbecke, Bernard Thomas and Thomas Ullrich, Assessing Cloud Readiness: Introducing the Magic Matrices Method Used by Continental AG

Research Track: Sustainability

- (1) David Wittstuck and Frank Teuteberg, Towards a holistic Approach for Sustainable Partner Selection in the Electronics and Electronics Industry
- (2) Carl Stolze, Matthias Boehm, Novica Zarvic and Oliver Thomas, Towards Sustainable IT by Teaching Governance Practices for Inter-Organizational Dependencies
- (3) Danyoung Daniel Vaziri, Sustainability aspects of barrier (free information) and communication technology in the private sector

Research in progress/ Practice Track: Governance & Sustainability 2

- (1) Jörg Becker, Philipp Bergener, Dominic Breuker, Patrick Dellmann and Mathias Eggert, An Efficient Business Process Compliance Checking Approach
- (2) Jan Ormland, Nick Gehrke, Niels Müller/Wickop, A maturity model for segregation of duties in standard business software
- (3) Ioanna Constantiou, Anastasia Papazafiropoulou and Sabine Madsen, Investigating the influence of information management practices on IS governance
- (4) Wietske Van Osch and Michel Avital, The Green Vistas of Sustainable Innovation in IT

Friday, September 23

Keynote 2

Ulrich Frank, Business Process Modelling – A few Suggestions for a Future Research Agenda

Research Track: Design Themes

- (1) David Wastell and Sue White, Make kitsch the enemy: the “monstrous carbuncle” of the UK’s vetting and barring scheme
- (2) Ranjan Vaidya, Michael Myers and Lesley Gardner, The design – reality gap: The impact of stakeholder strategies on IS implementation in developing countries
- (3) Manuel Wieseke, Michael Schemmann and Helmut Krcmar, Understanding the Role of Information Technology for Organizational Control Design: Risk Control as New Control

Research in progress/ Practice Track: Governance & Sustainability 2

- (1) Duane Truex, Katarina Lindblad/Gidund, Leif Olsson, Johanna Sjöyryn, Aron Larsson, Olof Nilsson, Karen Anderson, Erik Borglund and Viveca Asproth, Position Statement: Sustainable Information and IS (SIIS)
- (2) Gitte Skou Petersen, Sustainability and IS research – an interaction design perspective
- (3) Markus Helfert and Tony O'Brien, Sustaining Data Quality: Creating and Sustaining Data Quality within diverse Enterprise Resource Planning and Information Systems
- (4) Peter Bednar and Christine Welch, Sustainability in IS: the case for an open systems approach

Research Track: Customer and User Integration

- (1) Yogesh Dwivedi, Nripendra P. Rana, Hsin Chen, Michael Williams, A Meta-Analysis of the Unified Theory of Acceptance and Use of Technology (UTAUT)
- (2) Ulrich Bretschneider and Jan Marco Leimeister, Getting customers' motives: Lean on motivation theory for designing virtual ideas communities
- (3) Björn Johansson, Diffusion of Open Source ERP systems development: How Users are Involved

Research in progress/ Practice Track: Idea Cloud

- (1) Dorothee Zerwas and Harald F.O. von Kortzfleisch, Potentials of Living Labs for the Diffusion of Information Technology: A Conceptual Analysis
- (2) Johannes Vergeer and Wallace Chigona, A Media Discourse of Broadband Policy in a Developing Country Context
- (3) Yogesh Dwivedi, Sukumar, Raghav, Anastasia Papazafiropoulou Michael Williams, ERP Implementation in Indian Context: Examining Perceptions on Success Factors
- (4) Nikhil Srinivasan and Jan Damsgaard, The Adoption of Web 2.0 platforms

Saturday, September 24

Keynote 3

Peter-Axel Nielsen, Building Sustainable Governance Structures for IT Management: A case of what public organisations do and don't and how they should improve

Research Track: Future Subjects

- (1) Jörg H. Mayer, Neon Steinecke and Reiner Quick, Improving the Applicability of Environmental Scanning Systems: State of the Art and Future Research
- (2) Torsti Rantapuskka and Sari-Seelma Sore, Progress of Commitment in Co-Operative Software Acquisition

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Editorial Preface

Conceptual modelling has become an essential tool for the management of enterprises. The conference 'Modeling business information systems (MobIS)' is the most important conference in the German-speaking community on this topic. The twelfth issue was held from the 15 to 17 of September 2010 at the Technical University of Dresden. The conference offered space for interesting discussions and the presentation of state-of-the-art research results in a very familiar atmosphere.

Model based management was in the main focus of the conference. The presented papers covered following topics: methods, tools, operations on models as well as those with a strong focus on the application in areas like health care, telecommunication, energy, simulation and engineering. While prior research focussed on business process modelling the current research shifts from the strategic level to the operational level. Challenges like energy management, the simulation of technical processes or audits for risk management require conceptual modelling of operational aspects. Therefore conceptual modelling becomes increasingly important as instrument for problem-solution and for the operational management of organisations.

This special issue presents advancements of the most promising research papers of the MobIS 2010. The paper 'Prolegomena of a Modelling Method in Support of Audit Risk Assessment' (Strecker, Heise, Frank) shows how complexity in risk management can be reduced using conceptual modelling techniques. A domain-specific language is developed for the support of internal controls modelling. Therefore the terminology in the auditing domain is refined and structured.

Fellmann et al. show in their submission 'Towards Checking the Semantic Correctness of Process Models' how ontologies, rules and reasoning can be used to semantically check process models. Feasibility is demonstrated by applying the approach administrative processes.

Schlieter and Esswein ('Reference Modeling in Health Care – State of the Art and Proposal for the Construction of a Reference Model') demonstrate how adaptive reference-models can be built grounded on empirical surveys and how reference model improve the documentation of health-care processes. The paper contributes a model-based quality management approach in the ambulant health care sector. Complex systems and problems can be structured using frameworks that guide analysis, design and implementation. Using conceptual models to represent the parts of frameworks is a well-established approach. Nevertheless, the vertical integration of framework layers is a remaining problem.

In 'Vertical Model Integration' Bögel and Esswein evaluate the state of the art of integration approaches and identify design dimensions essentially in vertically integrating framework layers. In a case study, the applicability of the approaches to integrate models for simulating mobile constructions machinery is shown.

We want to thank all contributors of the MobIS 2010 and we are looking forward to see you at the Enterprise Modelling and Information Systems Architectures (EMISA 2011) in Hamburg from 22 to 23 September 2011.

Dresden, June 2011

Werner Esswein

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