

BMSD'14 Technical Program

June 24		June 25		June 26	
		08:30	Welcome Desk Registration		
		09:00	Keynote Lecture Prof. Dr. Erik Proper <i>Chair: Prof. Dr. Roel Wieringa</i>	09:00	Welcome Desk Registration
		10:00	BMSD'14 Session 3: Full Papers Enterprise Architecture Management	09:30	BMSD'14 Session 8: Short Papers Business Models and Ontologies
		11:00	Coffee-Break	10:30	BMSD'14 Session 9: Short Papers Business Analysis and Simulation
		11:15	BMSD'14 Session 4: Full Papers Enterpr. Regulations, Rules, Resources	11:30	Coffee-Break
		12:45	Lunch	11:45	BMSD'14 Session 10: Short Papers Enterprise Modeling and Interoperability
		13:45	BMSD'14 Session 5: Full Papers Modeling Business Processes & Inf. Systems	12:45	Lunch
14:00	Welcome Desk Registration	14:45	BMSD'14 Session 6: Short Papers Modeling Information Systems	13:45	BMSD'14 Session 11: Short Papers Applying Business Models
14:30	Opening Session	15:25	Coffee-Break	14:25	BMSD'14 Session 12: Short Papers Data, Services, Context
14:45	Panel <i>Chair: Dr. Boris Shishkov</i>	15:35	BMSD'14 Session 7: Full Papers Model-Driven Testing and Adaptability	15:25	Coffee-Break
15:45	Coffee-Break	16:35	Special Session e-Health Services and Technologies	15:35	BMSD'14 Session 13: Short Papers Business Model Design and Innovations
16:00	Keynote Lecture Prof. Dr. Roel Wieringa <i>Chair: Prof. Dr. Erik Proper</i>	17:15	Special Session Industrial Track	16:15	Special Session Intelligent Systems and Business Analysis
17:00	BMSD'14 Session 1: Full Papers Conceptual Enterprise Modeling			17:35	Closing Session
18:00	BMSD'14 Session 2: Full Papers Business Model Design	19:30	BMSD'14 Banquet		
		23:00			

The list of ACCEPTED PAPERS follows on the next three pages

BMSD'14: List of Accepted Papers

Session 1: **CONCEPTUAL ENTERPRISE MODELING**

Paper 1:

Power-Modelling, Toward a more Versatile Approach to Creating and Using Conceptual Models

Presenter: **Ulrich Frank**

Author: Ulrich Frank

Paper 2:

A Meta-Architecture for Service-Oriented Systems and Applications

Presenter: **Leszek Maciaszek**

Authors: Leszek Maciaszek, Tomasz Skalniak, Grzegorz Biziel

Session 2: **BUSINESS MODEL DESIGN**

Paper 3:

Improving Computers-Support for Collaborative Business Model Design and Exploration

Presenter: **Florian Matthes**

Authors: Marin Zec, Alexander Schneider, Florian Matthes, Peter Duerr

Session 3: **ENTERPRISE ARCHITECTURE MANAGEMENT**

Paper 4:

Agile Enterprise Architecture Management: An Analysis on the Application of Agile Principles

Presenter: **Florian Matthes**

Authors: Matheus Hauder, Sascha Roth, Christopher Schulz, Florian Matthes

Paper 5:

Context-Sensitive Impact Analysis for Enterprise Architecture Management

Presenter: **Melanie Langermeier**

Authors: Melanie Langermeier, Christian Saad, Bernhard Bauer

Session 4: **ENTERPRISE REGULATIONS, RULES, RESOURCES**

Paper 6:

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Presenter: **Marijn Janssen**

Author: Marijn Janssen

Paper 7:

A Relation-Algebra Language to Specify Declarative Business Rules

Presenter: **Lex Wedemeijer**

Author: Lex Wedemeijer

Paper 8:

Modeling Capability and Affordance as Properties of Human/Machine Resource Systems

Presenter: **Vaughan Michell**

Authors: Vaughan Michell, Ella Roubtsova

Session 5: **MODELING BUSINESS PROCESSES AND INFORMATION SYSTEMS**

Paper 9:

Using UML to Specify Artifact-centric Business Process Models

Presenter: **Montserrat Estanyol**

Authors: Montserrat Estanyol, Anna Queralt, Maria-Ribera Sancho, Ernest Teniente

Paper 10:

Is the Value Concept a Valuable Concept for Information Systems?

Presenter: **Coen Suurmond**

Author: Coen Suurmond

Session 6: **MODELING INFORMATION SYSTEMS**

Paper 13:

Modelling Information Systems using NOMIS, A Practical View of its Application and its Insights to Business Processes

Presenter: **Jose Cordeiro**

Author: Jose Cordeiro

Paper 14:

An Approach to the Context-Oriented Use Case Analysis

Presenter: **Kalinka Kaloyanova**

Authors: Kalinka Kaloyanova, Neli Maneva

Session 7: **MODEL-DRIVEN TESTING AND ADAPTABILITY**

Paper 11:

A Test Generator for Model-Based Testing

Presenter: **Ella Roubtsova**

Authors: Ella Roubtsova, Serguei Roubtsov

Paper 12:

Model-Driven QoS-aware Approach for the Sensor Network

Presenter: **Assel Akzhalova**

Author: Assel Akzhalova

BMSD'14: List of Accepted Papers (Cont.)

Session 8: BUSINESS MODELS AND ONTOLOGIES

Paper 15:

Validating Value Network Business Models by Ontologies

Presenter: **Marzieh Bakhshandeh**

Authors: Jose Granjo, Marzieh Bakhshandeh, Joao Pombinho, Miguel Mira da Silva, Artur Caetano

Paper 16:

Actor Based Competences Supporting Enterprise Modeling Changes

Presenter: **Khaled Gaaloul**

Authors: Marwen Jabloun, Yemna Sayeb, Henda Ben Ghezala, Khaled Gaaloul

Paper 17:

Towards a Generic Data Model for REA based Applications

Presenter: **Bernhard Wally**

Authors: Bernhard Wally, Christian Huemer

Session 9: BUSINESS ANALYSIS AND SIMULATION

Paper 18:

Towards Simulation of Business Processes, Transforming BPMN Models to Enterprise Dynamics Models

Presenter: **Ralf Schepers**

Authors: Ralf Schepers, Tobias Minning, Yannik Moog and Ingo J. Timm

Paper 19:

On Advanced Business Simulations, Converging Operational and Strategic Levels

Presenter: **Marc Drobek**

Authors: Marc Drobek, Wasif Gilani, David Redlich, Thomas Molka, Danielle Soban

Paper 20:

Multi-level Business Modeling and Simulation

Presenter: **Koen Casier**

Authors: Koen Casier, Marlies Van der Wee, Sofie Verbrugge, Heritiana Ranaivoson, Tanguy Coenen, Camille Reynders

Session 10: ENTERPRISE MODELING AND INTEROPERABILITY

Paper 21:

A Component Abstraction for Localized, Composable, Machine Manipulable Enterprise Specification

Presenter: **Vinay Kulkarni**

Authors: Vinay Kulkarni, Tony Clark, Balbir Barn

Paper 22:

Business Requirements, Normative Approach to Behavior Modeling

Presenter: **Timur Umarov**

Authors: Askhat Omarov, Rustem Kamun, Timur Umarov

Paper 23:

Towards An Integrated Model For Enterprise Interoperability

Presenter: **Wided Guedria**

Author: Wided Guedria

Session 11: APPLYING BUSINESS MODELS

Paper 24:

Applying Business Process Modeling Tools in Enterprise Resource Planning System Replacements, A Case Study

Presenter: **Justus Holler**

Authors: Stephan Gross, Justus Holler

Paper 25:

Future Business Model for Cellular Microgrids

Presenter: **Intisar Ali Sajjad**

Authors: Intisar Ali Sajjad, Roberto Napoli, Gianfranco Chicco

Session 12: DATA, SERVICES, CONTEXT

Paper 26:

Comparison of Data Management Strategies for Multi-Tenant Database Cluster

Presenter: **Evgeny Boytsov**

Authors: Evgeny Boytsov and Valery Sokolov

Paper 27:

Service Composition Based on Semantic Vocabulary

Presenter: **YuYue Du**

Authors: YuHui Ning, ShuXia Yu, YuYue Du, Wei Liu

Paper 28:

Reflecting on the Ambient Intelligence Vision, A Cyber-Physical-Social Perspective

Presenter: **Olga Murdoch**

Authors: Olga Murdoch, Michael O'Grady, Rem Collier, Gregory M.P. O'Hare

BMSD'14: List of Accepted Papers (Cont.)

Session 13: **BUSINESS MODEL DESIGN AND INNOVATIONS**

Paper 29:

Business Model Design: An Evaluation of Paper-Based and Computer-Aided Canvases

Presenter: **Boris Fritscher**

Authors: Boris Fritscher, Yves Pigneur

Paper 30:

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Presenter: **Ivan Ivanov**

Author: Ivan Ivanov

Special Session: **E-HEALTH SERVICES AND TECHNOLOGIES**

Paper 31:

Responsive Universal Design with Universal User Profiles and CSS User Queries

Presenter: **Hao-Wen Yang**

Authors: Hao-Wen Yang, Hsing Mei

Paper 32:

The Effect of Touch Care for Baby by Mother

Presenter: **Yoko Hirohashi**

Authors: Yoko Hirohashi, Chieko Kato, Mayumi Oyama-Higa, Sang-jae Lee, Tomoe Sano, Masato Ichikawa

Special Session: **INTELLIGENT SYSTEMS AND BUSINESS ANALYSIS**

Paper 33:

Uncertainty Modeling in the Process of SMEs Financial Mechanism Using Intuitionistic Fuzzy Estimations

Presenter: **Lyubka Doukowska**

Authors: George Shahpazov, Lyubka Doukowska, Vassia Atanassova

Paper 34:

Significance of the Predictive Maintenance Strategies for SMEs

Presenter: **Vassil Nikov**

Authors: Mincho Hadjiski, Lyubka Doukowska, Stefan Kojnov, Vladimir Monov, Vassil Nikov

Paper 35:

Artificial Intelligence Neural Networks Applications in Forecasting Financial Markets and Stock Prices

Presenter: **Veselin Shahpazov**

Authors: Veselin Shahpazov, Lyubka Doukowska, Dimitar Karastoyanov

Paper 36:

Intercriteria Decision Making Approach to EU Member States Competitiveness Analysis

Presenter: **Vassia Atanassova**

Authors: Vassia Atanassova, Lyubka Doukowska, Krassimir Atanassov, Deyan Mavrov

Special Session: **INDUSTRIAL TRACK**

Paper 37:

Value-Driven Design and Implementation of Business Processes, Transferring Strategy into Execution at Pace with Certainty

Presenter: **Mathias Kirchmer**

Author: Mathias Kirchmer