

BMSD'20 Technical Program

July 6	July 7	July 8
	08:30	08:45
		Welcome Desk Registration
	09:00	09:10
	Keynote Lecture Prof. Dr. Mathias Weske <i>Chair: Dr. Boris Shishkov</i>	BMSD'20 Session 9: Full Papers visualization of enterprise architectures and virtual reality
	10:00	10:10
	BMSD'20 Session 4: Full Papers business process modeling and product line engineering	BMSD'20 Session 10: Short Papers adaptation to customer needs
	11:00	10:30
	Coffee-Break	Coffee-Break
	11:15	11:15
	BMSD'20 Session 5: Full Papers business process optimization, architectural patterns, and grammars	BMSD'20 Session 11: Short Papers business process management, declarative semantics, and business/technical EIS infrastructures
	12:45	12:15
	Lunch	BMSD'20 Session 12: Short Papers design of IoT systems
	13:30	12:45
13:30		Lunch
14:00	13:45	13:45
Welcome Desk Registration	BMSD'20 Session 6: Full Papers workflow-based variability modeling and AI/ML -based modeling	BMSD'20 Session 13: Short Papers stakeholder interests & business modeling
Opening Session	14:45	14:10
14:15	BMSD'20 Session 7: Short Papers business model dependencies and change impact analysis	BMSD'20 Session 14: Short Papers data analytics and e-learning
Panel <i>Chair: Dr. Boris Shishkov</i>	15:30	14:40
Coffee-Break	Coffee-Break	Coffee-Break
15:15	15:30	15:00
BMSD'20 Session 1: Full Papers organizational modeling	BMSD'20 Session 8: Full Papers knowledge management and transfer of knowledge	BMSD'20 Session 15: Short Papers data analytics and Bayesian statistics
15:30	15:45	15:40
16:00		BMSD'20 Session 16: Short Papers virtual reality and user-driven modeling
Keynote Lecture Prof. Dr. Manfred Reichert <i>Chair: Prof. Dr. Norbert Gronau</i>	18:15	Discussion & Closing Session
17:00	Meeting Point: Am Kanal 47	
BMSD'20 Session 2: Full Papers resilience of information systems, service provisioning	Walking Tour	
18:00	20:00	
BMSD'20 Session 3: Full Papers business process management	Symposium Dinner	
	22:00	

The list of ACCEPTED PAPERS follows on the next two pages

BMSD'20: List of Accepted Papers

Session 1: **ORGANIZATIONAL MODELING**

Paper 1:

Organisations: Large Worlds or Small Worlds?

Presenter: **Coen Suurmond**

Author: Coen Suurmond

Session 2: **RESILIENCE OF INFORMATION SYSTEMS, SERVICE PROVISIONING**

Paper 3:

Making Enterprise Information Systems Resilient against Disruptive Events: A Conceptual View

Presenter: **Boris Shishkov**

Authors: Boris Shishkov, Alexander Verbraeck

Paper 4:

A Reference Model for a Service Level Agreement, In domain of Information Sharing Services

Presenter: **Ella Roubtsova**

Authors: Cor Hofman, Ella Roubtsova

Session 3: **BUSINESS PROCESS MANAGEMENT**

Paper 2:

Process Reference Models: Accelerator for Digital Transformation

Presenter: **Mathias Kirchmer**

Authors: Mathias Kirchmer, Peter Franz

Session 4: **BUSINESS PROCESS MODELING AND PRODUCT LINE ENGINEERING**

Paper 8:

Business Process Model Driven Approach for Automatic Use Case Model Generation

Presenter: **Adel Taweel**

Authors: Salam Turkman, Adel Taweel

Paper 9:

Integrated Process Model for Systems Product Line Engineering of Physical Protection Systems

Presenter: **Bedir Tekinerdogan**

Authors: Bedir Tekinerdogan, Sevil Yagiz, Kaan Özcan, Iskender Yakin

Session 5: **BUSINESS PROCESS OPTIMIZATION, ARCHITECTURAL PATTERNS, AND GRAMMARS**

Paper 5:

Graph-based Multi-Criteria Optimization for Business Processes

Presenter: **Frank Nordemann**

Authors: Frank Nordemann, Ralf Tönjes, Elke Pulvermüller, Heiko Tapken

Paper 6:

Design Optimization of IoT Models: Structured Safety and Security Flaw Identification

Presenter: **Julia Rauscher**

Authors: Julia Rauscher, Bernhard Bauer

Paper 7:

From Business Modeling to Software Design

Presenter: **Bert de Brock**

Author: Bert de Brock

Session 6: **WORKFLOW-BASED VARIABILITY MODELING AND AI/ML -BASED MODELING**

Paper 10:

From Adaptive Business Processes to Orchestrated Microflows

Presenter: **Andreas Sinnhofer**

Authors: Andreas Sinnhofer, Roy Oberhauser, Christian Steger

Paper 11:

Model-Driven ML-Ops for Intelligent Enterprise Applications: Vision, Approaches and Challenges

Presenter: **Willem-Jan van den Heuvel**

Authors: Willem-Jan van den Heuvel, Damian A. Tamburri

Session 7: **BUSINESS MODEL DEPENDENCIES AND CHANGE IMPACT ANALYSIS**

Paper 16:

Business Model Dependencies: Towards Conceptualizing Dependencies for Extending Modeling Languages for Business Models

Presenter: **Christian Vorbohle**

Authors: Christian Vorbohle, Daniel Szopinski, Dennis Kundisch

Paper 17:

Concepts for Comparison in Models to Support Decision Making

Presenter: **Ella Roubtsova**

Authors: Ella Roubtsova, Rachelle Bosua

BMSD'20: List of Accepted Papers (Cont.)

Session 8: **KNOWLEDGE MANAGEMENT AND TRANSFER OF KNOWLEDGE**

Paper 12:

Managing Human and Artificial Knowledge Bearers, The Creation of a Symbiotic Knowledge Management Approach

Presenter: **Marcus Grum**

Author: Marcus Grum

Paper 13:

Adaptable Knowledge-Driven Inf. Systems Improving Knowledge Transfers, Design of Context-Sensitive, AR-Enabled Furniture Assemblies

Presenter: **Norbert Gronau**

Authors: Marcus Grum, Norbert Gronau

Session 9: **VISUALIZATION OF ENTERPRISE ARCHITECTURES AND VIRTUAL REALITY**

Paper 14:

VR-EAT: Visualization of Enterprise Architecture Tool Diagrams in Virtual Reality

Presenter: **Roy Oberhauser**

Authors: Roy Oberhauser, Pedro Sousa, Florian Michel

Paper 15:

Understanding the Augmented and Virtual Reality Business Ecosystem: An e³-value Approach

Presenter: **Julian Schuir**

Authors: Julian Schuir, Jannis Vogel, Frank Teuteberg, Oliver Thomas

Session 10: **ADAPTATION TO CUSTOMER NEEDS**

Paper 18:

Model-based Hypothesis Engineering for Supporting Adaptation to Uncertain Customer Needs

Presenter: **Sebastian Gottschalk**

Authors: Sebastian Gottschalk, Enes Yigitbas, Gregor Engels

Session 11: **BUSINESS PROCESS MANAGEMENT, DECLARATIVE SEMANTICS, AND BUSINESS/TECHNICAL EIS INFRASTRUCTURES**

Paper 19:

An Agent-Oriented Methodology for Business Process Management

Presenter: **Sara Zouad**

Authors: Sara Zouad, Mahmoud Boufaida

Paper 20:

Declarative Semantics of Actions and Instructions

Presenter: **Bert de Brock**

Author: Bert de Brock

Paper 21:

Bridging the Gap between Business and Technical Infrastructures of Enterprise Information Systems: Addressing the "Vertical Fit" Problems

Presenter: **Sahbi Zahaf**

Authors: Sahbi Zahaf, Khaoula Fatnassi, Faiez Gargouri

Session 12: **DESIGN OF IoT SYSTEMS**

Paper 22:

IoT System Design of a V2X Application

Presenter: **Evangelos Spyrou**

Authors: Evangelos Spyrou, Konstantinos Skoufas, Dimitris Mitrakos

Session 13: **STAKEHOLDER INTERESTS AND BUSINESS MODELING**

Paper 23:

Stakeholder Tensions in Decision-making for Opening Government Data

Presenter: **Ahmad Luthfi**

Authors: Ahmad Luthfi, Marijn Janssen, Joep Cromptoets

Session 14: **DATA ANALYTICS AND e-LEARNING**

Paper 24:

Automated System for Monitoring of Educational Processes: Collection, Management, and Modeling of Data

Presenter: **Lyazzat Atymtayeva**

Authors: Lyazzat Atymtayeva, Kanat Kozhakhmet, Alexander Savchenko

Session 15: **DATA ANALYTICS AND BAYESIAN STATISTICS**

Paper 25:

Exploration of Data Analytics for Ground Segment in Space Systems

Presenter: **Bedir Tekinerdogan**

Authors: Bedir Tekinerdogan, Bedia Acar, Çağrı Cabioğlu, Damla Savaş, Nebi Vuran, Şenol Tekdal, Ümit Gürsoy

Paper 26:

Understanding Human Generated Decision Data

Presenter: **Johan Silvander**

Author: Johan Silvander

BMSD'20: List of Accepted Papers (Cont.)

Session 16: **VIRTUAL REALITY AND USER-DRIVEN MODELING**

Paper 27:

Enabling Collaborative Business Process Elicitation in Virtual Environments

Presenter: **Ludger Pöhler**

Authors: Ludger Pöhler, Julian Schuir, Simon Lübbers, and Frank Teuteberg

Paper 28:

Business Processes and the Safety of Stakeholders: Considering the Electromagnetic Pollution

Presenter: **Magdalena Garvanova**

Authors: Magdalena Garvanova, Ivan Garvanov, Ivan Kashukeev