

BMSD'21 Technical Program

July 5	July 6	July 7
	08:30 Welcome Desk Registration	08:45 Welcome Desk Registration
	09:00 Keynote Lecture Prof. Dr. Alexander Verbraeck <i>Chair: Prof. Dr. Norbert Gronau</i>	09:10 BMSD'21 Session 10: Short Papers conceptual analysis and modeling
	10:00 BMSD'21 Session 5: Full Papers business modeling	10:10 BMSD'21 Session 11: Short Papers enterprise architecture and agility
	11:00 Coffee-Break	10:30 Coffee-Break
	11:15 BMSD'21 Session 6: Short Papers enterprise modeling, software development	11:00 BMSD'21 Session 12: Short Papers architectural viewpoints
	11:45 BMSD'21 Session 7: Full Papers architecture and design	11:20 BMSD'21 Session 13: Full Papers non-functional requirements software engineering project time analysis smart contracting
	12:45 Lunch	12:45 Lunch
13:30 Welcome Desk Registration	13:45 BMSD'21 Session 8: Full Papers security and privacy	13:45 BMSD'21 Session 14: Short Papers open data
14:00 Opening Session	15:15 Coffee-Break	14:10 Coffee-Break
14:15 BMSD'21 Session 1: Full Papers context-awareness	15:30 BMSD'21 Session 9: Full Papers context-awareness and governance	14:30 BMSD'21 Session 15: Short Papers IoT and applications in smart cities
14:45 Panel <i>Chair: Dr. Boris Shishkov</i>		14:50 BMSD'21 Session 16 industrial presentations
15:30 Keynote Lecture Prof. Dr. Norbert Gronau <i>Chair: Prof. Dr. Alexander Verbraeck</i>	17:00 Meeting Point: Hilton Lobby	16:00 Discussion & Closing Session
16:30 Coffee-Break	17:20 Walking Tour	
16:45 BMSD'21 Session 2: Full Papers business modeling		
17:15 BMSD'21 Session 3: Full Papers knowledge management	20:00 Symposium Dinner	
18:15 BMSD'21 Session 4: Full/S Papers functional requirements	22:00	

The list of ACCEPTED PAPERS follows on the next two pages

BMSD'21: List of Accepted Papers

Session 1: **CONTEXT-AWARENESS**

Paper 7:

Towards Well-Founded and Richer Context-Awareness Conceptual Models

Presenter: **Boris Shishkov**

Authors: Boris Shishkov, Marten van Sinderen

Session 2: **BUSINESS MODELING**

Paper 2:

Disruption and Images of Organisation

Presenter: **Coen Suurmond**

Author: Coen Suurmond

Session 3: **KNOWLEDGE MANAGEMENT**

Paper 12:

Modeling the Handling of Knowledge for Industry 4.0

Presenter: **Norbert Gronau**

Author: Norbert Gronau

Paper 13:

Quantification of Knowledge Transfers: The Design of an Experiment Setting for the Examination of Knowledge Transfers

Presenter: **Norbert Gronau**

Authors: Marcus Grum, Norbert Gronau

Session 4: **FUNCTIONAL REQUIREMENTS**

Paper 6:

From Elementary User Wishes and Domain Models to SQL-Specifications

Presenter: **Bert de Brock**

Author: Bert de Brock

Paper 20:

What to Do When Requirements are Changing All the Time: A Control System Example

Presenter: **Bert de Brock**

Author: Bert de Brock

Session 5: **BUSINESS MODELING**

Paper 1:

Extending Business Model Development Tools with Consolidated Expert Knowledge

Presenter: **Sebastian Gottschalk**

Authors: Sebastian Gottschalk, Jonas Kirchhoff, Gregor Engels

Paper 3:

VR-UML: The Unified Modeling Language in Virtual Reality - An Immersive Modeling Experience

Presenter: **Roy Oberhauser**

Author: Roy Oberhauser

Session 6: **ENTERPRISE MODELING, SOFTWARE DEVELOPMENT**

Paper 22:

Towards Augmented Enterprise Models as Low-Code Interfaces to Digital Systems

Presenter: **Hans-Georg Fill**

Authors: Hans-Georg Fill, Felix Härer, Fabian Muff, Simon Curty

Session 7: **ARCHITECTURE AND DESIGN**

Paper 4:

A Reference Architecture for Enhanced Design of Software Ecosystems

Presenter: **Bahar Schwichtenberg**

Authors: Sanket Kumar Gupta, Bahar Schwichtenberg, Gregor Engels

Paper 5:

Managing Knowledge of Intelligent Systems: The Design of a Chatbot Using Domain-Specific Knowledge

Presenter: **Marcus Grum**

Authors: Marcus Grum, David Kotarski, Maximilian Ambros, Tibebu Biru, Hermann Krallmann, Norbert Gronau

Session 8: **SECURITY AND PRIVACY**

Paper 9:

Benefits and Challenges in Information Security Certification - A Systematic Literature Review

Presenter: **Maya Daneva**

Authors: Mike Hulshof, Maya Daneva

Paper 10:

Privacy as a Service (PaaS): A Conceptual Model of GDPR to Construct Privacy Services

Presenter: **Ella Roubtsova**

Authors: Ella Roubtsova, Rachelle Bosua

Paper 11:

Privacy Enabled Software Architecture

Presenter: **Aleksandar Dimov**

Authors: Emilia Stefanova, Aleksandar Dimov

BMSD'21: List of Accepted Papers (Cont.)

Session 9: **CONTEXT-AWARENESS AND GOVERNANCE**

Paper 8:

On Context Frames and Their Implementations

Presenter: **Johan Silvander**

Author: Johan Silvander

Paper 14:

Digital Transformation of Business Process Governance

Presenter: **Mathias Kirchmer**

Author: Mathias Kirchmer

Session 10: **CONCEPTUAL ANALYSIS AND MODELING**

Paper 15:

Revisiting Human Relativism – Guidelines for Precision in Information Systems Modeling

Presenter: **José Cordeiro**

Author: José Cordeiro

Paper 16:

Digital Transformation: Current Challenges and Future Perspectives

Presenter: **Ivan. I. Ivanov**

Author: Ivan I. Ivanov

Paper 17:

Conceptual Model of the Ecosystem Value Balance

Presenter: **Krista Sorri**

Authors: Krista Sorri, Katariina Yrjönkoski

Session 11: **ENTERPRISE ARCHITECTURE AND AGILITY**

Paper 18:

Enterprise Architecture and Agility: A Systematic Mapping Study

Presenter: **Hong Guo**

Authors: Hong Guo, Darja Smite, Jingyue Li, Shang Gao

Session 12: **ARCHITECTURAL VIEWPOINTS**

Paper 19:

View and Viewpoint Reconstruction for Assisting the Preparation of Participatory Modeling Sessions

Presenter: **David Naranjo**

Authors: David Naranjo, Mario Sánchez

Session 13: **NON-FUNCTIONAL REQUIREMENTS, SOFTWARE ENGINEERING, PROJECT TIME ANALYSIS, SMART CONTRACTING**

Paper 21:

Value-Based Fuzzy Approach for Non-Functional Requirements Prioritization

Presenter: **Maya Daneva**

Authors: Khush Bakht Ijaz, Irum Inayat, Maya Daneva, Faiza A. Bukhsh

Paper 23:

Bridging the Gap Between Structural and Behavioral Models in a Software-Centric Environment

Presenter: **Noël Hagemann**

Authors: Noël Hagemann, Bernhard Bauer

Paper 24:

A Heuristic Technique for Project Time Analysis in Conditions with High Uncertainty

Presenter: **Maksim Goman**

Author: Maksim Goman

Paper 25:

ChainOps for Smart Contract-based Distributed Applications

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

Authors: Willem-Jan van den Heuvel, Damian A. Tamburri, Damiano D'Amici, Fabiano Izzo, Sandra Potten

Session 14: **OPEN DATA**

Paper 26:

A Stakeholders Taxonomy for Opening Government Data Decision-Making

Presenter: **Ahmad Luthfi**

Authors: Ahmad Luthfi, Marijn Janssen

Session 15: **IoT AND APPLICATIONS IN SMART CITIES**

Paper 27:

Towards IoT-Based Transport Development in Smart Cities: Safety and Security Aspects

Presenter: **Ivan Garvanov**

Authors: Ivan Garvanov, Magdalena Garvanova, Daniela Borissova, Bojan Vasovic, Denislav Kanev

Session 16: **INDUSTRIAL PRESENTATIONS**

Presentation 1:

Presenter: **Mathias Kirchmer**

Presentation 2:

Presenter: **Andreas Sinnhoffer**