# BMSD'23 Technical Program

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<th>July 3</th>
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<td>08:30</td>
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<tr>
<td>09:00</td>
<td>Panel</td>
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<td>Chair: Dr. Boris Shishkov</td>
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<td>10:30</td>
<td>BMSD'23 Session 4: Full Papers</td>
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<td>function-as-a-service</td>
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<td>BMSD'23 Session 5</td>
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<td>context awareness &amp; trust</td>
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<td>BMSD'23 Session 6</td>
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<td>OO specifications &amp; database triggers</td>
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<td>12:00</td>
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<td>Keynote Lecture</td>
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<td>Prof. Dr. Willem-Jan vd Heuvel</td>
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<td>Chair: Prof. Dr. Roy Oberhauser</td>
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<td>14:15</td>
<td>Coffee-Break</td>
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<td>BMSD'23 Session 7: Short Papers</td>
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<td>15:00</td>
<td>domain-specific modeling, decision making, and social justice</td>
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<td>BMSD'23 Session 8: Short Papers</td>
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<td>organizational semiotics and BPMN modeling</td>
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<td>Coffee-Break</td>
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<td>BMSD'23 Session 9: Short Papers</td>
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<td>16:15</td>
<td>organizational performance and organizational change</td>
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<td>18:15</td>
<td>Meeting Point: Domplein</td>
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<td>19:00</td>
<td>Walking Tour - Utrecht</td>
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<td>Symposium Dinner</td>
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The list of ACCEPTED PAPERS follows on the next three pages
Session 1: ENTERPRISE MODELING AND CONTEXT AWARENESS

Paper 4:
Enterprise Modeling with Conventions
Presenter: Ella Roubtsova
Authors: Stef Joosten, Ella Roubtsova

Paper 5:
Business Modeling and (Human) Context Awareness
Presenter: Coen Suurmond
Author: Coen Suurmond

Session 2: VIRTUAL REALITY AND CONCEPTUAL MODELING

Paper 7:
VR-EvoEA+BP: Using Virtual Reality to Visualize Enterprise Context Dynamics Related to Enterprise Evolution and Business Processes
Presenter: Roy Oberhauser
Authors: Roy Oberhauser, Marie Baehre, Pedro Sousa

Paper 8:
Past Achievements and Future Opportunities in Combining Conceptual Modeling with VR/AR: A Systematic Derivation
Presenter: Fabian Muff
Authors: Fabian Muff, Hans-Georg Fill

Session 3: ORGANIZATIONAL CAPABILITIES

Paper 10:
Development of a Capability Maturity Model for Organization-wide Green IT Adoption
Presenter: Victor Brand
Authors: Victor Brand, Maryam Razavian, Baris Ozkan

Session 4: FUNCTION-AS-A-SERVICE

Paper 9:
FaaSOnto: A Semantic Model for Enabling Function-as-a-Service Platform Selection
Presenter: Damian Andrew Tamburri
Authors: Stijn van Geene, Indika Kumara, Geert Monsieur, Willem-Jan van Den Heuvel, Damian Andrew Tamburri

Session 5: CONTEXT AWARENESS AND TRUST

Paper 6:
Incorporating Trust into Context-Aware Services
Presenter: Boris Shishkov
Authors: Boris Shishkov, Hans-Georg Fill, Krassimira Ivanova, Marten van Sinderen, Alexander Verbraeck

Paper 20:
Comparing Sensor-Based Computing and Predictive Data Analytics for Usage in Context-Aware Applications
Presenter: Boris Shishkov
Authors: Boris Shishkov, Georgi Yosifov, Boyan Bontchev

Session 6: OO SPECIFICATIONS AND DATABASE TRIGGERS

Paper 11:
From Conceptual Specification to OO Specification
Presenter: Bert de Brock
Authors: Bert de Brock, Rein Smedinga

Paper 25:
A Development Example: From Conceptual Specification to OO Specification
Presenter: Bert de Brock
Authors: Rein Smedinga, Bert de Brock

Paper 26:
Managing Database Trigger Design
Presenter: Bert de Brock
Author: Bert de Brock

Session 7: DOMAIN SPECIFIC MODELING, DECISION MAKING, AND SOCIAL JUSTICE

Paper 16:
Composing an Initial Domain-Specific Modeling Language Notation by Reusing Icons
Presenter: Ben Roelens
Authors: Ben Roelens, Rob Ebben, Rogier van de Wetering

Paper 17:
Validating Trust in Human Decisions to Improve Expert Models Based on Small Data Sets
Presenter: Johan Silvander
Authors: Johan Silvander, Shailesh Pratap Singh

Paper 18:
Presenter: Tamara Roth
Authors: Tamara Roth, Alexander Rieger, Gilbert Fridgen, Amber Young
**BMSD’23: List of Accepted Papers (Cont.)**

Session 8: ORGANIZATIONAL SEMIOTICS AND BPMN MODELING

**Paper 14:**
A Semiotic Analysis of the Representativeness of BPMN Graphic Elements  
**Author:** Evelyne Batista Duarte, Rafael Batista Duarte, Denis Silva da Silveira

**Paper 15:**
A Systematic Approach to Derive User Stories and Gherkin Scenarios from BPMN Models  
**Authors:** Daniel Mateus, Denis Silva da Silveira, João Araújo

Session 9: ORGANIZATIONAL PERFORMANCE AND ORGANIZATIONAL CHANGE

**Paper 12:**
Architecting Agility: Unraveling the Impact of AI Capability on Organizational Change and Competitive Advantage  
**Authors:** Rogier van de Wetering, Petra de Weerd-Nederhof, Samaneh Bagheri, Roger Bons

**Paper 13:**
Enterprise Architecture Artifacts’ Role in Improved Organizational Performance  
**Presenters:** Frank Grave, Rogier Van de Wetering, Rob Kusters

Session 10: CHANGE MANAGEMENT AND KNOWLEDGE MANAGEMENT FOR BUSINESS PROCESSES

**Paper 1:**
Modeling Change in Business Processes  
**Author:** Norbert Gronau  
**Presenters:** Christof Thim, Norbert Gronau, Jennifer Haase, Marcus Grum, Arnulf Schueffler, Wiebke Roling, Annette Kluge

**Paper 3:**
Serious Game-Based Haptic Modeling - An Application Oriented Approach for Sequentially Developing New Business Models from Tacit Knowledge  
**Authors:** Norbert Gronau, Malte Teichmann, Edzard Weber

Session 11: BUSINESS RULES, SOFTWARE ENGINEERING, AND TECHNICAL CHANGE

**Paper 22:**
A Web-based Approach for Traceability in Rule-based Business Information Systems  
**Author:** Lloyd Rutledge  
**Presenters:** Lloyd Rutledge, Brent Berghuis, Kelvin Lim, Mark Soerokromo

**Paper 23:**
A Conceptual Model for the Selection of Methods for Software Engineering Process Improvement  
**Author:** Tiago Amorim  
**Presenters:** Tiago Amorim, Andreas Vogelsang

**Paper 24:**
Towards Logs-driven Monitoring of Technical Degradations: An ERP Perspective  
**Authors:** Pieter van de Griend, Rob Kusters, Jos Trienekens

Session 12: AR APPLICATIONS AND INTERNET-of-THINGS

**Paper 19:**
Applying Augmented Reality in Tourism: Analyzing Relevance as it Concerns Consumer Satisfaction and Purchase Intention  
**Author:** Faisal Aburub  
**Presenters:** Brent Berghuis, Kelvin Lim, Mark Soerokromo

**Paper 21:**
A Model of a Multi-Sensor System for Detection and Tracking of Vehicles and Drones  
**Authors:** Ivan Garvanov, Magdalena Garvanova, Daniela Borissova, Gabriela Garvanova

Session 13: BP MANAGEMENT AND DIGITAL TRANSFORMATION

**Paper 2:**
Realizing Appropriate Process Standardization – Basis for Effective Digital Transformation  
**Authors:** Mathias Kirchmer

Session 14: VULNERABILITIES WITHIN IoT DEVICES AND CYBERSECURITY

**Paper 27:**
A View on Vulnerabilities within IoT Devices in the Smart Home Environment  
**Authors:** Annika Nykanen, Andrei Costin

**Paper 28:**
On Tools for Practical and Effective Security Policy Management and Vulnerability Scanning  
**Author:** Ilkka Urtamo
<table>
<thead>
<tr>
<th>Paper 29:</th>
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<tbody>
<tr>
<td>Linking Computers to the Brain: Overview of Cybersecurity Threats and Possible Solutions</td>
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<tr>
<td>Presenter: Tuomo Lahtinen</td>
</tr>
<tr>
<td>Authors: Tuomo Lahtinen, Andrei Costin</td>
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