

# BIS 2018 programme

July 18, 2018

Time	Session 1 (auditorium 1)	Session 2 (seminar 3)	Session 3 (auditorium 2)
08:30	Registration		
09:30	<b>Opening BIS + Keynote “Scientific challenges from the digital disruption of water industry”, Francesco Archetti, University of Milan-Bicocca (auditorium 1)</b>		
10:45	coffee		
11:15	<b>Social Media and Web-based Business Information Systems</b> <ul style="list-style-type: none"> <li>- Tight and Loose Coupling in Evolving Platform Ecosystems: The Cases of Airbnb and Uber</li> <li>- On Feeding Business Systems with Linked Resources from the Web of Data</li> <li>- Increasing the Explanatory Power of Investor Sentiment Analysis for Commodities in Online Media</li> <li>- Comparative analysis of the informativeness and encyclopedic style of the popular Web information sources</li> </ul>	<b>Workshop on Scientific Challenges &amp; Business Opportunities in Water Management (SciBOWater 1)</b> <ul style="list-style-type: none"> <li>- High-performance computing applied to numerical models in UBEST</li> <li>- A multiple-layer clustering method for real-time decision support in a water distribution system</li> <li>- A Comparative Study on Decision Support under Uncertainty</li> </ul>	<b>Workshop on Business and IT Alignment (BITA 1)</b> <ul style="list-style-type: none"> <li>- Business and Information Technology Alignment Measurement – a Recent Literature Review</li> <li>- Business-IT alignment improvement within co-creation value networks: design of a reference model-based support</li> <li>- Using Business Process Modelling to Improve Student Recruitment in UK Higher Education</li> </ul>
12:45	lunch		
13:45	<b>Business and Enterprise Modelling (1)</b> <ul style="list-style-type: none"> <li>- Application of Inductive Reference Modeling Approaches to Enterprise Architecture Models</li> <li>- Towards a Typology of Approaches for Evaluating Sustainability-oriented Business Models</li> <li>- Towards Agility in IT Governance Frameworks</li> </ul>	<b>Workshop on Scientific Challenges &amp; Business Opportunities in Water Management (SciBOWater 2)</b> <ul style="list-style-type: none"> <li>- Adaptation of irrigation systems to current climate changes</li> <li>- Automated updating of land cover maps used in hydrological modelling</li> <li>- Plastic Grabber: Underwater Autonomous Vehicle Simulation for Plastic Objects Retrieval Using Genetic Programming</li> </ul>	<b>Workshop on Applications of Knowledge-Based Technologies in Business (AKTB 1)</b> <ul style="list-style-type: none"> <li>- Profiling User Colour Preferences with BFI-44 Personality Traits</li> <li>- Enhancing Teamwork Behavior of Services</li> <li>- Process Mining of Periodic Rating Scale Survey Data using Analytic Hierarchy Process</li> </ul>
15:15	coffee		
15:45	<b>Business and Enterprise Modelling (2)</b> <ul style="list-style-type: none"> <li>- Organizations in Transformation: Agility as Consequence or Prerequisite of Digitization?</li> <li>- Information Security Management Systems – A Maturity Model based on ISO/IEC 27001</li> <li>- Repairing Outlier Behaviour in Event Logs</li> </ul>	<b>FOKUS Lab Tours</b> <b>Tour 1: 15:45   Tour 2: 16:20</b> <b>Meeting point: In front of the elevator!</b>	<b>Workshop on Applications of Knowledge-Based Technologies in Business (AKTB 2)</b> <ul style="list-style-type: none"> <li>- Ontology-Based Fragmented Company Knowledge Integration: Possible Approaches</li> <li>- Business Rule Optimisation: Problem Definition, Proof-of-Concept, and Application Areas</li> <li>- Enhancing clinical decision support through information processing capabilities and strategic IT alignment</li> <li>- The benefits of modeling software-related exceptional paths of business processes</li> </ul>
18:30	<b>Keynote “Deconstructing Blockchains: Concepts, Applications, and Systems”, Hans-Arno Jacobsen, Technische Universität München (auditorium 1)</b>		
19:30	Reception Meetup + Poster Session		

# July 19, 2018

Time	Session 1 (auditorium 1)	Session 2 (seminar 3)	Session 3 (auditorium 2)
09:00	<b>Keynote “Big Data Management and Apache Flink: Key Challenges and (some) Solutions”, Volker Markl, Technische Universität Berlin (auditorium 1)</b>		
10:00	<b>Process Management (1)</b> <ul style="list-style-type: none"> <li>- Fast Incremental Conformance Analysis for Interactive Process Discovery</li> <li>- Business Process Compliance and Business Process Change: An Approach to Analyze the Interactions</li> <li>- Mining Hybrid Business Process Models: A Quest for Better Precision</li> </ul>	<b>Doctoral Consortium (DC 1)</b> <ul style="list-style-type: none"> <li>- Modelling of Risk and Reliability of Maritime Transport Services Based on Big Data</li> <li>- Measures for Quality Assessment of Articles and Infoboxes in Multilingual Wikipedia</li> <li>- Mixed Methods approach as requirements analysis of a method for process harmonization in DSR</li> </ul>	<b>Workshop on Blockchain and Smart Contract Technologies (BSCT 1)</b> <ul style="list-style-type: none"> <li>- On The Future Of Markets Driven by Blockchain</li> <li>- Invisible Blockchain and Plasticity of Money – Adam Smith Meets Darwin to Buy Crypto Currency</li> <li>- Chaining Property to Blocks – On the Economic Efficiency of Blockchain-Based Property Enforcement</li> </ul>
11:30	coffee		
12:00	<b>Process Management (2)</b> <ul style="list-style-type: none"> <li>- Extending BPSim based on Workflow Resource Patterns</li> <li>- Towards Implementing REST-enabled Business Process Choreographies</li> <li>- Disambiguation of DMN Decision Tables</li> </ul>	<b>Doctoral Consortium (DC 2)</b> <ul style="list-style-type: none"> <li>- Supply Chain Modelling using Data Science</li> <li>- Assessing Process Suitability for AI-based Automation. Research Idea and Design</li> <li>- Behavioral biometrics in mobile banking and payment applications</li> </ul>	<b>Workshop on Blockchain and Smart Contract Technologies (BSCT 2)</b> <ul style="list-style-type: none"> <li>- SmartExchange: Decentralised Trustless Cryptocurrency Exchange</li> <li>- A Multichain Architecture for Distributed Supply Chain Design in Industry</li> <li>- Decentralized Energy Networks based on Blockchain: Background, Overview and Concept Discussion</li> </ul>
13:30	lunch		
14:30	<b>Smart Infrastructures</b> <ul style="list-style-type: none"> <li>- Using Blockchain Technology for Business Processes in Purchasing – Concept and Case Study-based Evidence</li> <li>- Developing a Multiple-Objective Demand Response Algorithm for the Residential Context</li> <li>- Toward Resilient Mobile Integration Processes</li> </ul>	<b>Doctoral Consortium (DC 3)</b> <ul style="list-style-type: none"> <li>- New approaches of Tetris Scheduler from Datacenters to Cloud-edge systems</li> <li>- In-Memory Computing Systems Architectures</li> <li>- Graph and behaviour based model for predicting churn on banking data</li> <li>- A Data-driven Examination of Technological Infrastructure within the Ecosystem of German Startups’ Digital Platforms</li> <li>- A Legally Relevant Socio-Technical Language Development for Smart Contracts</li> </ul>	<b>Workshop on Blockchain and Smart Contract Technologies (BSCT 3)</b> <ul style="list-style-type: none"> <li>- Blockchain-based Distributed Marketplace</li> <li>- Risk Engineering and Blockchain: Anticipating and Mitigating Risks</li> <li>- Blockchain Backed DNSSEC</li> </ul>
16:00	coffee		
16:30	<b>Workshop on Business and IT Alignment (BITA 2)</b> <ul style="list-style-type: none"> <li>- Determinants to Benefit from Enterprise Architecture Management – A Research Model</li> <li>- Stakeholder-Oriented and Enterprise Architecture Driven Cloud Service Selection</li> <li>- Ontology Development Strategies in Industrial Contexts</li> </ul>	<b>PhD Caffee</b>	<b>Workshop on Blockchain and Smart Contract Technologies (BSCT 4)</b> <ul style="list-style-type: none"> <li>- Enabling Data Markets using Smart Contracts and Multi-Party Computation</li> <li>- Blockchain-Based Management of Shared Energy Assets Using a Smart Contract Ecosystem</li> <li>- Blockchain based certificate verification platform</li> <li>- Research of Ethereum Mining Hash Rate Dependency on GPU Hardware Settings</li> </ul>
18:00	Bus City Tour to Conference Dinner		
19:00	Conference dinner		

# July 20, 2018

Time	Session 1 (auditorium 1)	Session 2 (seminar 3)	Session 3 (auditorium 2)
09:00	<b>ICT Project Management</b> - Big Data enabled organizational transformation: The effect of inertia in adoption and diffusion - Amalgamation of 3D Printing Technology and the Digitalized Industry – Development and Evaluation of an Open Innovation Business Process Model	<b>Workshop on Quality of Open Data (QoD 1)</b> - Introduction by chairs - Keynote – Amrapali Zaveri: Data quality and FAIR data principles	<b>Workshop on Blockchain and Smart Contract Technologies (BSCT 5)</b> - Smart Contract-Based Role Management on the Blockchain - Practical deployability of Permissioned Blockchains
10:00	coffee		
10:30	<b>Big and Smart Data and Artificial Intelligence</b> - A hybrid approach to implement data driven optimization into production environments - Human Interpretability of Enriched Topic Models - Predictive Quality: Towards a New Understanding of Quality Assurance Using Machine Learning Tools	<b>Workshop on Quality of Open Data (QoD 2)</b> - ADEQUATE: A Community-driven Approach to Improve Open Data Quality - Situation-dependent data quality analysis for geospatial data using Semantic technologies - Indicating Studies' Quality based on Open Data in Digital Libraries	<b>Workshop on Blockchain and Smart Contract Technologies (BSCT 6)</b> - A Public, Blockchain-Based Distributed Smart-Contract Platform Enabling Mobile Lite Wallets Using a Proof-of-Stake Consensus Algorithm - Opportunities, Challenges, and Future Extensions for Smart-Contract Design Patterns - Industrial Socio-Cyberphysical System's Consumables Tokenization for Smart Contracts in Blockchain
12:00	lunch		
13:00	<b>Applications, Evaluations, and Experiences (1)</b> - Satellite imagery analysis for operational damage assessment in Emergency situations - Qualitative Assessment of Machine Learning Techniques in the Context of Fault Diagnostics - A Comparative Evaluation of Log-Based Process Performance Analysis Techniques	<b>Workshop on Quality of Open Data (QoD 3)</b> - Syntactical Heuristics for the Open Data Quality Assessment and their applications - Access Control and Quality Attributes of Open Data: Applications and Techniques - Lighting round	<b>Workshop on Blockchain and Smart Contract Technologies (BSCT 7)</b> - Blockchain-based internet voting: systems' compliance with international standards - The Proposal of a Blockchain-based Architecture for Transparent Certificate Handling
14:30	coffee		
15:00	<b>Applications, Evaluations, and Experiences (2)</b> - Blockchain for Business Applications: A systematic literature review - ICT-based Support for the Collaboration of Formal and Informal Caregivers – A User-Centered Design Study - Identifying Suitable Representation Techniques for the Prioritization of Requirements and Their Interdependencies for Multiple Software Product Lines	<b>Workshop on Big Data and Business Analytics Ecosystems (iDEATE)</b> - Prescriptive Analytics: A Survey of Approaches and Methods - Challenges from data-driven predictive maintenance in brownfield industrial settings - Big Data is power: Business value from a process oriented analytics capability	<b>Workshop on Digital Enterprise Engineering and Architecture (IDEA)</b> - IT infrastructure capability and health information exchange: The moderating role of hospital-wide electronic medical records - Towards a conceptual model for Information Technology service brokering - Foster strategic Orientation in the Digital Age – A methodic approach for guiding SME to a Digital Transformation - TEA – A Technology Evaluation and Adoption Influence Framework for small and medium sized enterprises
16:30	Closing Session		