BIS 2018 programme

July 18, 2018

Time	Session 1 (auditorium 1)	Session 2 (seminar 3)	Session 3 (auditorium 2)
08:30	Registration		
09:30	Opening BIS + Keynote "Scientific challenges from the digital disruption of water industry", Francesco Archetti, University of Milan-Bicocca (auditorium 1)		
10:45	coffee		
11:15	**Social Media and Web-based Business Information Systems** - Tight and Loose Coupling in Evolving Platform Ecosystems: The Cases of Airbnb and Uber - On Feeding Business Systems with Linked Resources from the Web of Data - Increasing the Explanatory Power of Investor Sentiment Analysis for Commodities in Online Media - Comparative analysis of the informativeness and encyclopedic style of the popular Web information sources	**Workshop on Scientific Challenges & Business Opportunities in Water Management (SciBOWater 1)** - High-performance computing applied to numerical models in UBEST - A multiple-layer clustering method for real-time decision support in a water distribution system - A Comparative Study on Decision Support under Uncertainty	**Workshop on Business and IT Alignment (BITA 1)** - Business and Information Technology Alignment Measurement – a Recent Literature Review - Business-IT alignment improvement within co-creation value networks: design of a reference model-based support - Using Business Process Modelling to Improve Student Recruitment in UK Higher Education
12:45	lunch		
13:45	**Business and Enterprise Modelling (1)** - Application of Inductive Reference Modeling Approaches to Enterprise Architecture Models - Towards a Typology of Approaches for Evaluating Sustainability-oriented Business Models - Towards Agility in IT Governance Frameworks	**Workshop on Scientific Challenges & Business Opportunities in Water Management (SciBOWater 2)** - Adaptation of irrigation systems to current climate changes - Automated updating of land cover maps used in hydrological modelling - Plastic Grabber: Underwater Autonomous Vehicle Simulation for Plastic Objects Retrieval Using Genetic Programming	**Workshop on Applications of Knowledge-Based Technologies in Business (AKTB 1)** - Profiling User Colour Preferences with BFI-44 Personality Traits - Enhancing Teamwork Behavior of Services - Process Mining of Periodic Rating Scale Survey Data using Analytic Hierarchy Process
15:15	coffee		
15:45	**Business and Enterprise Modelling (2)** - Organizations in Transformation: Agility as Consequence or Prerequisite of Digitization? - Information Security Management Systems – A Maturity Model based on ISO/IEC 27001 - Repairing Outlier Behaviour in Event Logs	**FOKUS Lab Tours** **Tour 1: 15:45	Tour 2: 16:20** **Meeting point: In front of the elevator!**	**Workshop on Applications of Knowledge-Based Technologies in Business (AKTB 2)** - Ontology-Based Fragmented Company Knowledge Integration: Possible Approaches - Business Rule Optimisation: Problem Definition, Proof-of-Concept, and Application Areas - Enhancing clinical decision support through information processing capabilities and strategic IT alignment - The benefits of modeling software-related exceptional paths of business processes
18:30	Keynote "Deconstructing Blockchains: Concepts, Applications, and Systems", Hans-Arno Jacobsen, Technische Universität München (auditorium 1)		
19:30	Reception Meetup + Poster Session		

July 19, 2018

Time	Session 1 (auditorium 1)	Session 2 (seminar 3)	Session 3 (auditorium 2)
09:00	Keynote "Big Data Management and Apache Flink: Key Challenges and (some) Solutions", Volker Markl, Technische Universität Berlin (auditorium 1)		
10:00	**Process Management (1)** - Fast Incremental Conformance Analysis for Interactive Process Discovery - Business Process Compliance and Business Process Change: An Approach to Analyze the Interactions - Mining Hybrid Business Process Models: A Quest for Better Precision	**Doctoral Consortium (DC 1)** - Modelling of Risk and Reliability of Maritime Transport Services Based on Big Data - Measures for Quality Assessment of Articles and Infoboxes in Multilingual Wikipedia - Mixed Methods approach as requirements analysis of a method for process harmonization in DSR	**Workshop on Blockchain and Smart Contract Technologies (BSCT 1)** - On The Future Of Markets Driven by Blockchain - Invisible BlockChain and Plasticity of Money – Adam Smith Meets Darwin to Buy Crypto Currency - Chaining Property to Blocks – On the Economic Efficiency of Blockchain-Based Property Enforcement
11:30	coffee		
12:00	**Process Management (2)** - Extending BPSim based on Workflow Resource Patterns - Towards Implementing REST-enabled Business Process Choreographies - Disambiguation of DMN Decision Tables	**Doctoral Consortium (DC 2)** - Supply Chain Modelling using Data Science - Assessing Process Suitability for AI-based Automation. Research Idea and Design - Behavioral biometrics in mobile banking and payment applications	**Workshop on Blockchain and Smart Contract Technologies (BSCT 2)** - SmartExchange: Decentralised Trustless Cryptocurrency Exchange - A Multichain Architecture for Distributed Supply Chain Design in Industry - Decentralized Energy Networks based on Blockchain: Background, Overview and Concept Discussion
13:30	lunch		
14:30	**Smart Infrastructures** - Using Blockchain Technology for Business Processes in Purchasing – Concept and Case Study-based Evidence - Developing a Multiple-Objective Demand Response Algorithm for the Residential Context - Toward Resilient Mobile Integration Processes	**Doctoral Consortium (DC 3)** - New approaches of Tetris Scheduler from Datacenters to Cloud-edge systems - In-Memory Computing Systems Architectures - Graph and behaviour based model for predicting churn on banking data - A Data-driven Examination of Technological Infrastructure within the Ecosystem of German Startups' Digital Platforms - A Legally Relevant Socio-Technical Language Development for Smart Contracts	**Workshop on Blockchain and Smart Contract Technologies (BSCT 3)** - Blockchain-based Distributed Marketplace - Risk Engineering and Blockchain: Anticipating and Mitigating Risks - Blockchain Backed DNSSEC
16:00	coffee		
16:30	**Workshop on Business and IT Alignment (BITA 2)** - Determinants to Benefit from Enterprise Architecture Management – A Research Model - Stakeholder-Oriented and Enterprise Architecture Driven Cloud Service Selection - Ontology Development Strategies in Industrial Contexts	**PhD Caffee**	**Workshop on Blockchain and Smart Contract Technologies (BSCT 4)** - Enabling Data Markets using Smart Contracts and Multi-Party Computation - Blockchain-Based Management of Shared Energy Assets Using a Smart Contract Ecosystem - BlockChain based certificate verification platform - Research of Ethereum Mining Hash Rate Dependency on GPU Hardware Settings
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	**ICT Project Management** - 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	**Workshop on Quality of Open Data (QoD 1)** - Introduction by chairs - Keynote – Amrapali Zaveri: Data quality and FAIR data principles	**Workshop on Blockchain and Smart Contract Technologies (BSCT 5)** - Smart Contract-Based Role Management on the Blockchain - Practical deployability of Permissioned Blockchains
10:00	coffee		
10:30	**Big and Smart Data and Artifical Intelligence** - 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	**Workshop on Quality of Open Data (QoD 2)** - 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	**Workshop on Blockchain and Smart Contract Technologies (BSCT 6)** - 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	**Applications, Evaluations, and Experiences (1)** - 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	**Workshop on Quality of Open Data (QoD 3)** - Syntactical Heuristics for the Open Data Quality Assessment and their applications - Access Control and Quality Attributes of Open Data: Applications and Techniques - Lighting round	**Workshop on Blockchain and Smart Contract Technologies (BSCT 7)** - 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	**Applications, Evaluations, and Experiences (2)** - 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	**Workshop on Big Data and Business Analytics Ecosystems (iDEATE)** - 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	**Workshop on Digital Enterprise Engineering and Architecture (IDEA)** - 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		