

June 25, 2019

17:00
19:00

Registration
Venue "Sala de Juntas"

June 26, 2019

	Session 1	Session 2	Session 3	Session 4	Session 5	Session 6	Session 7
	Registration Venue "Sala de Juntas"						
08:30	Registration Venue "Sala de Juntas"						
09:30	Opening BIS and S-BPM One Venue "Salón de Actos"						
09:45	<u>Keynote by Francisco Herrera</u> Venue "Salón de Actos"						
10:45	Coffee Break						
11:15	<u>Artificial Intelligence 1</u> Room I2.31	<u>ICT 1</u> Room I2.33	<u>Social Media 1</u> Room I2.35	<u>Academic Publishing</u> Room "Capilla"	<u>ISAMD</u> Room H0.11	<u>BITA 1</u> Room I0.10	<u>S-BPM ONE IoT</u> Room I1.10
12:45	Lunch						
14:15	<u>Artificial Intelligence 2</u> Room I2.31	<u>ICT 2</u> Room I2.33	<u>Social Media 2</u> Room I2.35	<u>Doctoral Consortium 1</u> Room "Capilla"	<u>iCRM</u> Room H0.11	<u>BITA 2</u> Room I0.10	<u>S-BPM ONE Methodologies</u> Room I1.10
15:45	Coffee Break						
16:15	<u>Artificial Intelligence 3</u> Room I2.31	<u>ICT 3</u> Room I2.33	<u>Social Media 3</u> Room I2.35	<u>Mentoring</u> Room "Capilla"	<u>iDEATE</u> Room H0.11	<u>BITA 3</u> Room I0.10	<u>S-BPM ONE Emerging Trends</u> Room I1.10
21:00	<u>Welcome Reception</u> Venue "Patio del Rectorado"						
22:30	Optional Night trip tour						

June 27, 2019

	Session 1	Session 2	Session 3	Session 4	Session 5	Session 6
08:00	Registration Venue "Sala de Juntas"					
09:00	<u>Keynote by Alexander Markowetz</u> Venue "Salón de Actos"					
10:00	<u>Big Data 1</u> Room I2.31	<u>Applications 1</u> Room I2.33	<u>Smart infrastructure 1</u> Room I2.35	<u>Doctoral Consortium 2</u> Room "Capilla"	<u>BSCT 1</u> Room H0.11	<u>BIS + S-BPM ONE Practice</u> Room I1.10
11:30	Coffee Break					
12:00	<u>Big Data 2</u>	<u>Applications 2</u>	<u>AKTB 1</u>	<u>Doctoral</u>	<u>BSCT 2</u>	<u>S-BPM ONE</u>

	<i>Room I2.31</i>	<i>Room I2.33</i>	<i>Room I2.35</i>	<u>Consortium 3</u> <i>Room "Capilla"</i>	<i>Room H0.11</i>	<u>Workshop 1</u> <i>Room II.10</i>
13:30	Lunch					
15:00	<u>Big Data 3</u> <i>Room I2.31</i>	<u>Applications 3</u> <i>Room I2.33</i>	<u>AKTB 2</u> <i>Room I2.35</i>	<u>Doctoral Consortium 4</u> <i>Room "Capilla"</i>	<u>BSCT 3</u> <i>Room H0.11</i>	<u>S-BPM ONE Workshop 2</u> <i>Room II.10</i>
16:30	Coffee Break					
17:00	<u>Big Data 4</u> <i>Room I2.31</i>	<u>Applications 4</u> <i>Room I2.33</i>	<u>SciBoWater 1</u> <i>Room H0.10</i>	<u>Mentoring</u> <i>Room "Capilla"</i>	<u>BSCT 4</u> <i>Room H0.11</i>	
21:30	<u>Conference dinner</u> <i>Venue "Restaurante Rio Grande"</i>					

June 28, 2019

	Session 1	Session 2	Session 3	Session 4	Session 5	Session 6
08:00	Registration <i>Venue "Sala de Juntas"</i>					
09:00	<u>Keynote by Montserrat López Cobo</u> <i>Venue "Salón de Actos"</i>					
10:00	<u>Big Data 5</u> <i>Room I2.31</i>	<u>Smart infrastructure 2</u> <i>Room I2.35</i>	<u>QOD 1</u> <i>Room I0.10</i>	<u>DixEX 1</u> <i>Room H0.11</i>	<u>SciBoWater 2</u> <i>Room H0.10</i>	<u>S-BPM ONE Quo Vadis</u> <i>Room II.10</i>
11:30	Coffee Break					
12:00	<u>Applications 5</u> <i>Room I2.33</i>	<u>Smart infrastructure 3</u> <i>Room I2.35</i>	<u>QOD 2</u> <i>Room I0.10</i>	<u>DixEX 2</u> <i>Room H0.11</i>		
13:30	Lunch and Closing Words <i>Venue "Comedor Universitario"</i>					

Photos and videos

Please note that during the conference photos and videos of you may be taken for publicity and marketing purposes. If you do not want to be photographed, we kindly ask you to report it to the registration desk.

June 25, 2019

17:00 - 19:00 | **Registration**

Venue *"Sala de Juntas"*

June 26, 2019

8:30 | **Registration**

Venue *"Sala de Juntas"*

9:30 | **Opening BIS and S-BPM One**

Venue *"Salón de Actos"*

10:45 | **Coffee Break**

11:15 | **Sessions**

Artificial Intelligence 1

Room *I2.31*

Chair: Zibusiso Bhango

- Genetic Programming over Spark for Higgs Boson Classification
- Genetic algorithms for the picker routing problem in multi-block warehouses
- Determining Optimal Multi-layer Perceptron Structure Using Linear Regression

ICT Project management 1

Room *I2.33*

Chair: Adi Aviad

- The Long Way from Science to Innovation – a Research Approach for Creating an Innovation Project Methodology
- Quality of Research Information in RIS Databases: A Multidimensional Approach
- An ICT Project Case Study from Education: A Technology Review for a Data Engineering Pipeline

Social Media and Web-based systems 1

Room *I2.35*

Chair: Gulsum Akkuzu

- Keyword-driven Depressive Tendency Model for Social Media Posts
- Exploring Interactions in Social Networks for Influence Discovery
- Trends in CyberTurfing in the Era of Big Data

Academic Publishing in IS Journals – Talk with the editors Room *“Capilla”*

Discussion panel

- Prof. Rainer Alt (Electronic Markets)
- Prof. Christof Weinhardt (BISE)

Workshop on Information Systems and Applications in Maritime Domain (ISAMD 2019)

Room *H0.11*

- Correcting the Destination Information in Automatic Identification System Messages
- A Study of Vessel Trajectory Compression Based on Vector Data Compression Algorithms
- Spatial Query Processing on AIS Data Streams in Data Stream Management Systems
- OCULUS Sea Forensics: An Anomaly Detection tool for Maritime Surveillance

10th Workshop on Business and IT Alignment (BITA 2019) - 1

Room *I0.10*

- Skills and Competencies for Digital Transformation Initiatives
- Strategic Alignment and Business Performance in SME:s: An Empirical Investigation
- Enterprise Computing: A Case Study on Current Practices in SAP Operations
- Oranizational Challenges of Digitalization Initiatives in Tourism Network management Organizations

S-BPM ONE Session 1: IoT – Design and Development of Technology Infrastructures & IoT Frameworks

Room ***I1.10***

Chair: Werner Schmidt

- Dependable Data Sharing in Dynamic IoT-Systems
- Subject-oriented Specification of IoT Scenarios
- (De)centralized AI Solutions – Technological and commercial design parameters

12:45 | Lunch

14:15 | Sessions

Artificial Intelligence 2

Room ***I2.31***

Chair: Hmida Hmida

- A Framework to Monitor Machine Learning Systems Using Concept Drift Detection
- An Effective Machine Learning Framework for Data Elements Extraction from the Literature of Anxiety Outcome Measures to Build Systematic Review
- A Maturity Model for IT-related Security Incident Management

ICT Project management 2

Room ***I2.33***

Chair: Otmane Azeroual

- Subject-Orientation as a Means for Business Information System Design – a Theoretical Analysis and Summary
- Information Systems Planning and Success in SMEs: Strategizing for IS
- Modifying consent procedures to collect better data: the case of stress-monitoring wearables in the workplace

Social Media and Web-based systems 2

Room ***I2.35***

Chair: Piotr Stolarski

- System modeling by representing information systems as hypergraphs
- Influential Nodes Detection in Dynamic Social Networks
- A Fuzzy Modeling Approach for Group Decision Making in Social Networks

Doctoral Consortium – session 1

Room ***“Capilla”***

- Microservices for Architecting Data Science Workflows
- Configurations of change methods characteristics and change characteristics in the success of digital projects
- Incremental modeling of the supply chain

4th International Workshop on Applications, Methods and Technologies for Integrated Social CRM (iCRM 2019)

Room *H0.11*

- Social Network Advertising Classification Based on Content Categories
- Social CRM Services in Digital Marketing Agencies: A Preliminary Study on Outsourcing Practices in German SMEs

10th Workshop on Business and IT Alignment (BITA 2019) - 2

Room *I0.10*

- In Search for a Viable Smart Product Model
- Integration of Enterprise Modeling and Ontology Engineering as Support for Business/IT-Alignment
- Ontology-Based Fragmented Company Knowledge Integration: Multi-aspect Ontology Building

S-BPM ONE Session 2: Methodologies – Design Research, Methodologies and Organisational Processes

Room *I1.10*

Chair: Albert Fleischmann

- Conformance checking: A state-of-the-art literature review
- Towards a Comprehensive Understanding of the Context Concepts in Context-aware Business Processes
- A CoreASM based Referenz Implementation for Subject-Oriented Business Process Management Execution Semantics

15:45 | Coffee Break

16:15 | Sessions

Artificial Intelligence 3

Room *I2.31*

Chair: Piotr Kałużny

- A Model for Inebriation Recognition in Humans Using Computer Vision
- Interaction of Information Content and Frequency as predictors of verbs' lengths
- Automated Prediction of Relevant Key Performance Indicators for Organizations
- Audio-visual emotion recognition system for variable length spatio-temporal samples using Deep Transfer-Learning

ICT Project management 3

Room *I2.33*

Chair: Milena Stróżyna

- Cyber Treat Intelligence Modeling
- A COSMIC-Based Approach for Verifying the Conformity of BPMN, BPEL and Component Models
- Stress-Sensitive IT-Systems at Work: Insights from an Empirical Investigation

Social Media and Web-based systems 3

Room *I2.35*

Chair: Włodzimierz Lewoniewski

- A literature review on application areas of social media analytics
- Personalized cloud service review ranking approach based on probabilistic ontology
- Development of a Social Media Maturity Model for Logistics Service Providers

Doctoral Consortium – mentoring

Room *“Capilla”*

4th Workshop on Big Data and Business Analytics Ecosystems (iDEATE 2019)

Room *H0.11*

- SmartM: A Non-intrusive Load Monitoring Platform
- Towards a Digitized Understanding of the Skilled Crafts Domain
- Competing for Amazon’s Buy Box: A machine-learning approach
- Measuring Qualitative Performance Criteria with Fuzzy Sets
- Developing an Artificial Intelligence Capability: A Theoretical Framework
- A Configurational Approach to Task—Technology Fit in the Healthcare Sector

10th Workshop on Business and IT Alignment (BITA 2019) - 3

Room *I0.10*

- An Exploration of Enterprise Architecture in Hospitals
- Towards Aligning IT and Daily Routines of Older Adults

S-BPM ONE Session 3: Emerging Trends – New and alternative approaches/paradigms

Room *I1.10*

Chair: Stefanie Betz

- A Board Game Approach to Knowledge Acquisition and Business Process Modeling with BPMN
- Applying Agile Methods and Personas to S-BPM
- Can you see the wood for the trees? Collection and Compilation of Agility Models for BPM

21:00 | Welcome Reception

Venue "Patio del Rectorado"



Address: Universidad de Sevilla, Calle San Fernando, 4, 41004 Seville

22:30 | Optional Night trip tour

June 27, 2019

8:00 | Registration

Venue *“Sala de Juntas”*

9:00 | Keynote by Alexander Markowetz

Venue *“Salón de Actos”*

Big Data and Data Science - 1

Room *I2.31*

Chair: Marcin Pietranik

- Time series forecasting by recommendation: an empirical analysis on Amazon marketplace
- Prediction of Productivity and Energy Consumption in a Consteel Furnace Using Data-Science Models
- Understanding Requirements and Benefits of the Usage of Predictive Analytics in Management Accounting: Results of a Qualitative Research Approach

Applications, Evaluations, and Experiences - 1

Room *I2.33*

Chair: Piotr Kałużny

- Real-Time Age Detection Using a Convolutional Neural Network
- Deep Neural Networks for driver identification using accelerometer signals from smartphones
- Machine learning for engineering processes

Smart infrastructure - 1

Room *I2.35*

Chair: Aleksandr Kormiltsyn

- Business Challenges for Service Provisioning in 5G Networks
- Safety is the New Black: the increasing Role of Wearables in Occupational Health and Safety in Construction
- A Reference Architecture Supporting Smart City Applications

Doctoral Consortium - 2

Room *“Capilla”*

- Hyperparameter Optimisation for Improving Classification under Class Imbalance
- Towards a cross-company data and model platform for SMEs
- Use of Data Science for Promotion Optimization in Convenience Chain

2nd Workshop on Blockchain and Smart Contract Technologies (BSCT 2019) - 1. Blockchain security

Room *H0.11*

- Detecting brute-force attacks on cryptocurrency wallets
- Blockchain based Decentralized KYC (Know-Your-Customer)
- Contagion in Bitcoin networks

Joint Session BIS + S-BPM ONE Session 4: Practice - (S-)BPM in Practice, Technology Cases and Management Issues

Room *I1.10*

Chair: Stefanie Betz

- Business Process Management in Tourism Businesses
- A DMN-Based Method for Context-aware Business Process Modeling Towards Process Variability

- Incremental Implementation of Automated Guided Vehicle-Based Logistics Using S-BPM: Experience Report of a Digitalization Project at ENGEL Austria

11:30 | Coffee Break

12:00 | Sessions

Big Data and Data Science - 2

Room *I2.31*

Chair: Alvaro Gómez-Losada

- Triggering ontology alignment revalidation based on the degree of change significance on the ontology concept level
- A Comparative Application of Multi-Criteria Decision Making in Ontology Ranking
- The Impact of Imbalanced Training Data on Local Matching Learning of Ontologies

Applications, Evaluations, and Experiences - 2

Room *I2.33*

Chair: Siphesihle Sithungu

- An Inventory-based Mobile Application for Warehouse Management to Digitize Very Small Enterprises
- Enhancing Supply Chain Risk Management by Applying Machine Learning to Identify Risks
- Predicting Material Requirements in the Automotive Industry using Data Mining

11th Workshop on Applications of Knowledge-Based Technologies in Business (AKTB 2019) - 1

Room *I2.35*

- Data analytics in the electronic games
- Company Investment Recommendation based on Data Mining Techniques
- The impact of technology-based education on students' performance
- Evaluating the interdependent effect for Likert scale items

Doctoral Consortium - 3

Room *"Capilla"*

- Towards a system for data transparency to support data owner
- Towards a Linkage-Layer to Support the Data Integration
- Touchscreen behavioural biometrics authentication in self-contained mobile applications design
- Multimedia Data Mining in Digital Libraries Internet of Things: A Modern Paradigm to Nigeria Educational and Information Restructuring

2nd Workshop on Blockchain and Smart Contract Technologies (BSCT 2019) - 2. Economy & mining

Room *H0.11*

- Analyzing Transaction Fees with Probabilistic Logic Programming
- Comparing market phase features for cryptocurrency and benchmark stock index using HMM and HSMM filtering
- Study of factors related to Grin cryptocurrency mining efficiency with GPUs

S-BPM ONE Workshop 1: Abstract Layers – Extending the Potential of the Subject-Orientated Modeling Paradigm

Room *I1.10*

Chair: Matthes Elstermann & Albert Fleischmann

- Modeling Complex Process Systems with Subject-Oriented Means
- Demo session/tutorial

13:30 | Lunch

15:00 | Sessions

Big Data and Data Science - 3

Room *I2.31*

Chair: Matthias Volk

- Deriving Corporate Social Responsibility Patterns in the MSCI Data
- Profile Inference from Heterogeneous Data
- Method of Decision-Making Logic Discovery in the Business Process Textual Data

Applications, Evaluations, and Experiences - 3

Room *I2.33*

Chair: Mouzhi Ge

- Are Similar Cases Treated Similarly? A comparison between process workers
- Mining Labor Market Requirements Using Distributional Semantic Models and Deep Learning
- Collaboration in Mixed Homecare – A Study of Care Actors' Acceptance towards Supportive Groupware

11th Workshop on Applications of Knowledge-Based Technologies in Business (AKTB 2019) - 2

Room *I2.35*

- Mining Personal Service Processes: Towards a Conceptualization for the Time Perspective
- Knowledge-Based UML Use Case Model Transformation Algorithm
- Design of a Social-Based Recommendation Mechanism for Peer-to-Peer Insurance
- A Practical Grafting Model Based Explainable AI for Predicting Corporate Financial Distress

Doctoral Consortium - 4

Room *“Capilla”*

- Customer segmentation based on TV service usage
- Data Based User's Personality in the Personalizing of Sensitive Home
- Describing Individual User Profile for New Services with Respect to Privacy

2nd Workshop on Blockchain and Smart Contract Technologies (BSCT 2019) - 3. Economy & mining

Room *H0.11*

- Choosing a Consensus Protocol for Uses Cases in Distributed Ledger Technologies
- An On-Chain Method for Automatic Entitlement Management Using Blockchain Smart Contracts
- Towards Blockchain-Based E-Voting Systems

S-BPM ONE Workshop 2: Building Blocks & Economical Implications of The Internet of Actors

Room *I1.10*

Chair: Florian Strecker & Felix Gniza

- The Internet of Actors – A Peer-to-Peer Agile Value Creation Network
- The economics of the Internet of Actors
- Demo session

16:30 | Coffee Break

17:00 | Sessions

Big Data and Data Science - 4

Room *I2.31*

Chair: Zinaida Taran

- Decision-Support for Selecting Big Data Reference Architectures
- In-memory Big Graph: A Future Research Agenda
- Challenging SQL-on-Hadoop Performance with Apache Druid

Applications, Evaluations, and Experiences - 4

Room *I2.33*

Chair: Mark Pijnenburg

- Using Blockchain Technology for Cross-Organizational Process Mining – Concept and Case Study
- Data Quality Management Framework for Smart Grid Systems
- Balancing Performance Measures in Classification Using Ensemble Learning Methods

Scientific Challenges & Business Opportunities in Water Management (SciBOWater 2019) - 1

Room *H0.10*

- Multi-criteria decision-making model adjusted for the water quality management
- Telemetry system for Smart Agriculture
- Modeling Economic Influence on Technical Decisions in Urban, IoT-based Water Management Systems

Doctoral Consortium - mentoring

Room *“Capilla”*

- Customer segmentation based on TV service usage
- Data Based User’s Personality in the Personalizing of Sensitive Home
- Describing Individual User Profile for New Services with Respect to Privacy

2nd Workshop on Blockchain and Smart Contract Technologies (BSCT 2019) - 4. Blockchain connections

Room *H0.11*

- Blockchain and Internet of Things: Use Cases and Integration challenges
- Wikipedia as an information source on cryptocurrency technology
- Towards Blockchain and Semantic Web

21:30 | Conference dinner

Venue "Restaurante Rio Grande"  Address: Calle Betis, 69A, 41010 Seville.

June 28, 2019

8:00 | Registration

Venue *"Sala de Juntas"*

9:00 | Keynote by Montserrat López Cobo

Venue *"Salón de Actos"*

10:00 | Sessions

Big Data and Data Science - 5

Room *I2.31*

Chair: Agustín Borrego

- The Shift from Financial to Non-Financial Measures during Transition into Digital Retail – A Systematic Literature Review
- Modelling Legal Documents For Their Exploitation As Open Data
- Re-engineering Higher Education Learning and Teaching Business Processes for Big Data Analytics

Smart infrastructure - 2

Room *I2.35*

Chair: Elżbieta Lewańska

- Blockchain-based Platform for Smart Learning Environments
- Improving healthcare processes with smart contracts
- Energy Efficient Cloud Data Center Using Dynamic Virtual Machine Consolidation Algorithm

2nd Workshop on Quality of Open Data (QOD 2019) - 1

Room *I0.10*

- Evaluating the Quantity of Incident-Related Information in an Open Cyber Security Dataset
- Technical usability of Wikidata's linked data: evaluation of machine interoperability and data interpretability
- A New Tool for Automated Quality Control of Environmental Data in Open Web Services

1st International Workshop on Transforming the Digital Customer Experience (DigEx-2019) - 1

Room *H0.11*

- The Role of Location Dependent Services for the Success of Local Shopping Platforms
- How are Negative Customer Experiences Formed? A Qualitative Study of Customers' Online Shopping Journeys
- A model to assess customer alignment through customer experience concepts

Scientific Challenges & Business Opportunities in Water Management (SciBOWater 2019) - 2

Room *H0.10*

- Increasing collaboration and participation through serious gaming for improving the quality of service in urban
- Information Technology For Ethical Use Of Water

S-BPM ONE Session 5: S-BPM – Quo vadis?

Room ***I1.10***

Chair: Matthias Lederer

- Enterprise Architecture of the future: STARY
- What's going to happen to Business Process Management? Current Status and Future of a Discipline
- PANEL DISCUSSION

11:30 | Coffee Break

12:00 | Sessions

Applications, Evaluations, and Experiences - 5

Room ***I2.33***

Chair: Juan Carlos Roldán

- Dynamic Enterprise Architecture Capabilities: conceptualization and validation
- Modeling the Cashflow Management of Bike Sharing Industry
- Potential benefits of New Online Marketing Approaches

Smart infrastructure - 3

Room ***I2.35***

Chair: Milena Stróżyńska

- Explaining performance expectancy of IoT in Chilean SMEs
- Towards an Optimized, Cloud-Agnostic Deployment of Hybrid Applications
- Deep Influence Diagrams: An Interpretable and Robust Decision Support System

2nd Workshop on Quality of Open Data (QOD 2019) - 2

Room ***I0.10***

- Semantic Data integration and quality assurance of thematic maps in the German Federal Agency for Cartography and Geodesy
- Approach to Improving the Quality of Open Data in the Universe of Small Molecules

1st International Workshop on Transforming the Digital Customer Experience (DigEx-2019) - 2

Room ***H0.11***

- Understanding Users' Preferences for Privacy & Security Features – A Conjoint Analysis of Cloud Storage Services
- Towards Analyzing High Street Customer Trajectories – A Data-Driven Case Study

13:30 | Lunch and Closing Words

Venue ***“Comedor Universitario”***