**CBI’2017 Detailed program**

**Monday 24/7/2017**

8:00-9:00 Registration

9:00-9:30 Conference opening

9:30-10:30 Keynote talk 1

*Odysseas Charalambous*

10:30-11:00 Coffee break

11:00-12:30 Session 1: Data Analytics I

*Giuseppe Nunnari and Valeria Nunnari*: Forecasting Monthly Sales Retail Time Series: A Case Study

*Avraam Tsantekidis, Nikolaos Passalis, Anastasios Tefas, Juho Kanniainen, Moncef Gabbouj and Alexandros Iosifidis*: Forecasting Stock Prices from Limit Order Book using Convolutional Neural Networks

*Benjamin Klör, Markus Monhof, Sebastian Bräuer and Daniel Beverungen*: Recommendation and Configuration of Value-Added Services for Repurposing Electric Vehicle Batteries: A Vertical Software Prototype

11:00-12:30 Session 2: Business Process Management I

*Jan Hendrik Betzing*: Design and Implementation of an Event-driven In-memory Business Process Engine

*Sebastian Steinau, Vera Künzle, Kevin Andrews and Manfred Reichert*: Coordinating Business Processes Using Semantic Relationships

*Nikolaos Argyropoulos, Haralambos Mouratidis and Andrew Fish*: Attribute-Based Security Verification of Business Process Models

11:00-12:30 Session 3: Business Innovations I

*Wisal Ahmad, Mark Stufhaut, Nancy Johnson and Joe Labianca*: Collaborative Dynamics of Creative Teams: Modeling Creative Process in Advertising Design

*Kotaro Okazaki and Katsumi Inoue*: Modeling Trans-Device Content Experience and Knowledge Development for Detection of TV Audiences

*Ioana Deniaud, François Marmier, Didier Gourc and Xavier Labaume:* How Risks and Innovativeness Influence the Selection of Partner in NPD Alliances

12:30-14:00 Lunch break

14:00-15:30 Session 4: Enterprise Modeling, Architecture & Engineering I

*Pedro Gomes, Gonçalo Rodrigues Cadete and Miguel Mira Da Silva:* Using Enterprise Architecture to Assist Business Continuity Planning in Large Public Organizations

*Nuno Silva, Miguel Mira Da Silva and Pedro Sousa:* Modelling the Evolution of Enterprise Architectures using Ontologies

*Sérgio Guerreiro:* Locating and Visualizing the Most Valuable Business Processes States in Large Control Policy Graphs Produced by POMDP

14:00-15:30 Session 5: Business Process Management II

*Diogo Proença, João Estevens, Ricardo Vieira and Jose Borbinha*: Risk Management - A Maturity Model based on ISO 31000

*Maikel van Eck, Natalia Sidorova and Wil van der Aalst*: Guided Interaction Exploration in Artifact-centric Process Models

*Nijat Mehdiyev, Joerg Evermann and Peter Fettke*: A Multi-Stage Deep Learning Approach for Business Process Event Prediction

14:00-15:30 Doctoral Consortium I

*George Tsakalidis*: Towards a Comprehensive Business Process Optimization Framework

*Konstantinos Sintoris*: Extracting Business Process Models using Natural Language Processing (NLP) Techniques

15:30-16:00 Coffee break

16:00-17:30 Session 6: Business Innovations II

*Mitsuaki Nakasumi:* Information Sharing for Supply Chain Management Based on Blockchain Technology

*Fabian Hunke, Stefan Seebacher, Ronny Schüritz and Alexander Illi*: Towards a Process Model for Data-Driven Business Model Innovation

*Dionisis Margaris and Costas Vassilakis*: Improving Collaborative Filtering’s Rating Prediction Quality by Considering Shifts in Rating Practices

16:00-17:30 Session 7: Industry Services

*Hendrik Müller, Sascha Bosse, Matthias Pohl and Klaus Turowski*: Capacity Planning as a Service for Enterprise Standard Software

*Clemens Wolff and Björn Schmitz*: Determining Cost-Optimal Availability forProduction Equipment Using Service Level Engineering

*Florian Plenter*: Eliciting Value Propositions and Services in the Market for Electric Vehicle Charging

16:00-17:30 Doctoral Consortium II

*Christos Stergiou and Konstantinos Psannis:* Algorithms for Big Data in Advanced Communication Systems and Cloud Computing

*Andreas Plageras and Kostas Psannis:* Algorithms for Big Data Delivery over Internet of Things

**Tuesday 25/7/2017**

8:00-9:30 Conference opening

9:30-10:30 Keynote Talk 2

*Gregoris Mentzas*: Developing the Data-Driven Proactive Enterprise

10:30-11:00 Coffee break

11:00-12:30 Session 8: Smartness in Systems

*Ingo Zinnikus, Andre Antakli, Patrick Kapahnke, Matthias Klusch, Christopher Krauss, Andreas Nonnengart and Philipp Slusallek*: Integrated Semantic Fault Analysis and Worker Support for Cyber-Physical Production Systems

*Kwei-Jay Lin, Sen Zhou, Surong Yan and Chi-Sheng Daniel Shih*: Service-Oriented Things: Delivering Smart Services Using Internet of Things

*Anthony Simonofski, Estefania Serral Asensio, Johannes De Smedt and Monique Snoeck*: Citizen Participation in Smart Cities: Evaluation Framework Proposal

11:00-12:30 Session 9: Business Innovations III

*Stanislav Mamonov and Tamilla Mavlanova-Triantoro*: The Strategic Value of Data Resources in Emergent Industries

*Julian Löbbers, Moritz von Hoffen and Joerg Becker*: Business Development in the Sharing Economy

*Martin Mikusz, Tobias Schäfer, Tim Taraba and Christopher Jud*: Transforming the Connected Car into a Business Model Innovation

12:30-14:00 Lunch break

14:00-15:30 Session 10: Enterprise Modeling, Architecture & Engineering II

*Diogo Proença and Jose Borbinha:* Enterprise Architecture - A Maturity Model Based on TOGAF ADM

*Monika Kaczmarek-Heß*: Multilevel Model of Events in the Realm of Enterprise Modeling in Support of Enterprise Agility

Julio Cesar Sampaio Do Prado Leite and Henrique Prado de Sá Sousa: Toward an Organizational Alignment Modeling Language: the Human Resource Competency Perspective

14:00-15:30 Session 11: Data Analytics II

*Gioula Koutra, Stavroula Barbounaki, Dimitris Kardaras and George Stalidis:* A Multicriteria Model for Personnel Selection in Maritime Industry in Greece

*Zhenxin Qin and Ilias Petrounias:* A Semantic-Based Framework for Fined Grained Sentiment Analysis

*Sylvain Sagot, Alain-Jérôme Fougeres and Egon Ostrosi:* Business Constraints Integration in a Search Engine Optimization Fuzzy Decision Support System

15:30-16:00 Coffee break

16:00-17:30 Session 12: Business Process Management III

*Michael Vössing: Towards Managing Complexity and Uncertainty in Field Service Technician Planning*

*Ozge Gurbuz and Onur Demirörs:* From Organizational Guidelines to Business Process Models: Exploratory Case for an Ontology Based Methodology

*Matthias Walter and Christian Leyh*: Knocking on Industry’s Door: Product Cost Optimization in the Early Stages Requires Better Software Support

16:00-17:30 Session 14: Data Analytics III

*Soroosh Nalchigar and Eric Yu:* Conceptual Modeling for Business Analytics: A Framework and Potential Benefits

*Marvin Hagge, Moritz von Hoffen, Jan Hendrik Betzing and Jörg Becker:* Analyzing Tweets Mentioning #airbnb for Service Delivery Insights

*Matthias Volk, Sascha Bosse and Klaus Turowski:* Providing Clarity on Big Data Technologies - A Structured Literature Review

**Wednesday 26/7/2017**

8:00-9:30 Conference opening

9:30-10:30 Keynote talk 3

*Jorge Sanz*: Why Business Analytics is not the same as Data Science: Do enterprises really care about the difference?

10:30-11:00 Coffee break

11:00-12:30 Session 13: Enterprise Modeling, Architecture & Engineering III

*Anderson Paulo Avila Santos, Daniel Kaster and Evandro Baccarin*: Coalitions in Agricultural Supply Chains: A Behavioral Approach in Multi-party Automated Contract Negotiation

*Janne J. Korhonen and Marco Halén:* Enterprise Architecture for Digital Transformation

*Hannes Schlieter, Martin Benedict, Kai Gand and Martin Burwitz*: Towards Adaptive Pathways - Reference Architecture for Personalized Dynamic Pathways

11:00-12:30 Session 15: Reflective Research & Practice

*Fotis Kitsios, Nikolaos Papachristos and Maria Kamariotou:* Business Models for Open Data Ecosystem: Challenges and Motivations for Entrepreneurship and Innovation

*Diana Lück and Christian Leyh:* Evaluating Business Domain-Specific e-Collaboration - How Integrated e-Collaboration Improves the Product Costing Process

*Tom Haegemans, Monique Snoeck, Jasmien Lismont and Wilfried Lemahieu:* The Link between the Data Producers' Knowing-Why and their Intention to Enter High Quality Data

12:30-14:00 Lunch break

14:00-15:30 Session 16: Information Systems Engineering

*Naveen Prakash and Deepika Prakash:* Model-driven User Stories for Agile Data Warehouse Development

*Yu Negishi, Shinpei Hayashi and Motoshi Saeki:* Establishing Regulatory Compliance in Goal-Oriented Requirements Analysis

*Jandisson Soares de Jesus and Ana Melo:* Technical Debt and the Software Project Characteristics. A Repository-based Exploratory Analysis

14:00-15:30 Industry Track I

15:30-16:00 Coffee break

16:00-17:30 Session 17: Health Applications

*Nikos Dimitrioglou, Dimitris Kardaras and Stavroula Barbounaki:* Multicriteria Evaluation of the Internet of Things Potential in Health Care: The Case of Dementia Care

*Christos Papanagnou and Omeiza Matthews:* An Estimation Model for Hypertension Drug Demand in Retail Pharmacies with the Aid of Big Data Analytics

*Kai Gand:* Investigating on Requirements for Business Model Representations - The Case of Information Technology in Healthcare

16:00-17:30 Industry Track II

**Workshop**

**International Workshop on the Internet of Things and Smart Services (ITSS2017)**

**Tuesday 25th July**

11:00-11:10 Workshop opening

11:10-11:30

Svetlana Maltseva

IoT and customer-centric digital transformation

11:30-11:50

Vyacheslav Zhukov, Mikhail Komarov

Semantic control method of the Internet of Things based on Linked Open Data

11:50-12:10

Sina Namakiaraghi, Franck Fontanili, Elyes Lamine and Frederick Benaben

Business Process Diagnosis using Indoor Localization Systems and Process Mining Tools: a step toward a continuous improvement approach

12:10-12:30

Christoph Klötzer, Julia Weißenborn and Alexander Pflaum

The Evolution of Cyber-Physical Systems as a Driving Force behind Digital Transformation

 12:30-14:00 Lunch

14:00-14:20

Andrey Dvornikov, Pavel Abramov, Sergey Efremov and Leonid Voskov

QoS Metrics Measurement in Long Range IoT Networks

14:20-14:40

Christos Stergiou, Andreas Plageras, Kostas Psannis, George Kokkonis, Yutaka Ishibashi, Byung-Gyu Kim and B B Gupta

Efficient Large-scale Medical Data (eHealth Big Data) Analytics in Internet of Things

14:40-15:00

In Jeong Lee

Big Data Processing Framework of Learning Weather Information Included Length of Sight Distance and Road Traffic Collision Using Distributed CEP from CCTV Video

15:00-15:20

Dmitry Nazarov

Fuzzy model for assessment of causality of factors in collaborative economy

15:20-16:00 Coffee break

16:00-16:30 Discussion and closing remarks

**Workshop**

**International Workshop in Requirements Engineering and Design for Big Data Analytics and Applications (REDBDAA2017)**

**Wednesday 26th July**

11:00-11:30 Ilias Mavridis, Helen Karatza, Performance and Overhead Study of Containers Running on Top of Virtual Machines

11:30-12:00 Qudamah Quboa and Nikolay Mehandjiev, Creating Intelligent Business System by Utilising Big Data and Semantics

12:00-12:30 Open Discussion about both papers (e.g., further important research areas)

Lunch

14:00-14:30 Shanshan Wang and Ilias Petrounias, Big Data Analysis on Demographic Characteristics of Chinese Mobile Banking Users

14:30-15:00 Athanasios Basios and Pericles Loucopoulos, Six Sigma DMAIC Enhanced with Capability Modelling

15:00-15:30 Open Discussion about both papers (e.g., further important research areas)

**Workshop**

**Developing Multi-sided DIGITAL PLATFORMS – a business informatics perspective**

**Wednesday 26th July**

11:00 - 11:30

Timo Itälä and Harri Töhönen

Difficult Business Models of Digital business Platforms for Health Data: A Framework for Evaluation of the Ecosystem Viability

11:30 - 12:00

Kaisa Still, Marko Seppänen, Heidi KorhonenDif, Katri Valkokari, Arho Suominen and Miika Kumpulainen

Business model innovation of startups developing multisided digital platforms

12:00 - 12:30 - open discussion for both papers (e.g. further important research areas)

Lunch

14:00 - 14:30
Adrian Hernandez Mendez, Daniel Braun, Florian Matthes and Manfred Langen

Towards a Context-Aware Vertical Social Software Ecosystem

14:30 - 15:00
Monika Kaczmarek-Hess, Sybren de Kinderen, Qin Ma and Iván S. Razo-Zapata

The Conjoint Modeling of Value Networks and Regulations of Smart Grid Platforms: A Luxembourg Case Study

15:00 - 15:30 Open discussion for both papers (e.g. further important research areas)

Coffee Break

16:00 - 17:30 Open discussion for all four papers - synergy & potential collaboration for future workshops & conferences