

MORNING SESSIONS

COFFEE ROOM

08
45

GENERAL

OPENING

09
00

GENERAL

KEYNOTE: GERD ANTES - Evidence vs. Artificial Intelligence and Big Data - competitors or partners?

09
30

INDUSTRY TRACK

I01: AUTOMATION AND DIGITALIZATION IN THE MANUFACTURING INDUSTRY

Chair: Alicia Manglano

KEYNOTE: Boosting Steel - Data Science at Liebherr ([Andreas Schwarzhans](#), LIEBHERR)

1. Digitalization in production - From the big picture to a dedicated solution (*Lukas Prasol*)
2. Multidimensional Sequential Pattern to Find Causes of Problems (*Zornica Vaskova Vasileva*)

09
30

RESEARCH TRACK

R01: DATA SCIENCE FRAMEWORKS

Chair: Ralph Hoch

1. CRISP-DM Based Data Mining Methodology for Tribological Optimisation (*Samuel Saleh Bitrus*)
2. An Easy-to-Use Execution Environment for the Parallelisation of Computationally Intensive Data Science Applications (*Sabrina Rosmann*)
3. Symbolic Music Text Fingerprinting: Automatic Identification of Musical Scores (*Michele Della Ventura*)

10
30

GENERAL

Break (15')

10
45

GENERAL

KEYNOTE: PAUL ALEXANDRU BUCUR - Explainable models for the prediction of vibroacoustic quality in the automotive industry

11
15

INDUSTRY TRACK

I02: MODELING AND SIMULATION OF PHYSICAL OBJECTS

Chair: Robert Merz

KEYNOTE: Machine Learning and Data Science use cases for materials and components testing ([Roger Herger](#), thyssenkrupp Presta)

1. Simulating a cyber-physical system for behavior of elderly persons (*Maximilian Arbeiter*)
2. Modelling of Human Behaviour and Detection of Exceptions (*Tanja Maier*)

11
15

RESEARCH TRACK

R02: BAYESIAN ANALYSIS

Chair: Sebastian Hegenbart

1. Bayesian A/B Testing for Business Decisions (*Shafi Kamalbasha*)
2. Outlier detection in Bioinformatics with Mixtures of Gaussian and heavy-tailed distributions (*Alexandra Posekany*)
3. Uncertainty aware deep point based neural network for 3D object classification (*Christina Petschnigg*)

12
15

GENERAL

Lunch Break (45')



Click on the agenda to join the different rooms!

AFTERNOON SESSIONS

01 00	GENERAL	KEYNOTE: HELMUT LEOPOLD - AI Reality & Limits
01 30	INDUSTRY TRACK	I03: EXPERIENCES AND SOLUTIONS FOR COMPANIES USING AI Chair: Alicia Manglano KEYNOTE: Delivering impactful AI solutions (Florian Rosenberg, CRAYON) 1. Live Quality Validation Criteria for Executing a Test Set: A Heuristic Approach for Text Documents (<i>Frederick Bednar</i>) 2. Introducing Natural Language Interface to Databases for Data-Driven Small and Medium Enterprises (<i>Dejan Radovanovic</i>)
01 30	RESEARCH TRACK	R03: OPTIMIZING METHODS FOR DATA SCIENCE Chair: Ralph Hoch 1. Comparison of solution approaches for the propagation of quality requirements of steering gears (<i>Philipp Armbrust</i>) 2. Forecast Aggregation and Error Comparison: An Empirical Study (<i>Joshua Beal</i>) 3. Persistent Homology in Data Science (<i>Stefan Huber</i>)
02 30	GENERAL	Break (15')
02 45	INDUSTRY TRACK	I04: SMART APPLICATIONS Chair: Robert Merz 1. An Introduction to Graph Databases for Business Intelligence (<i>Frank Blau</i>) 2. Artificial Intelligence - from Rocket Science to Operational Efficiency (<i>Sinan Tankaz</i>) 3. Profit-maximizing Approach in Uplift Modelling: Evidence from the Media-service Provider (<i>Daniil Pozdeev</i>) 4. Physical-Statistical Modelling of Micro-Meteorology in an Alpine-Valley serving as Input to an Online-Pollutant-Dispersion-Simulation (<i>Gunter Spoeck</i>)
02 45	RESEARCH TRACK	R04: DEEP LEARNING APPLICATIONS Chair: Sebastian Hegenbart 1. Personalization of Deep Learning (<i>Johannes Schneider</i>) 2. DeepMAL - Deep Learning Models for Malware Traffic Detection and Classification (<i>Pedro Casas</i>) 3. NetSEC at High-Speed: Distributed Stream Learning for Security in Big Networking Data (<i>Pedro Casas</i>) 4. Human Migration as a Complex Network: Appropriate Abstraction and the Feasibility of Network Science Tools (<i>Dino Pitoski</i>)
03 45	GENERAL	KEYNOTE: CLEMENS WASNER - Status Quo of AI in Austria & Future Trends
04 15	GENERAL	CLOSING

COFFEE ROOM



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