

Overall Agenda

May 3, 2018

		Topic		
08:15		Registration		
09:00	09:15	Welcome note Dr. Thomas Usländer, Fraunhofer IOSB Prof. Farouk Yalaoui, UTT Jochen Ehlgötz, Managing Director TechnologieRegion Karlsruhe GmbH		
09:15	10:00	Keynote 1: Prof. Dr. Jürgen Beyerer, Fraunhofer IOSB "Data science, ML and AI for autonomous systems and Industrie 4.0"		
10:00	10:45	Round Table: Technological Challenges in Industrie 4.0 and Industrie du Futur Prof. Dr. Jürgen Beyerer, Managing Director Fraunhofer IOSB Russell Kelly, CEO Norelem Dr. Pierre Koch, President UTT Moderator: Dr. Thomas Usländer, Fraunhofer IOSB		
10:45	11:15	Convention signature UTT and Fraunhofer IOSB	Coffee Break and Networking	
11:15	12:45	Session 1.1 Business and Marketplaces	Session 1.2 IIoT infrastructure	Session 1.3 (Demo Talks) OPC UA/TSN Human-Machine I/F
12:45	13:45	Lunch		
13:45	14:15	Keynote 2: Dr. Pierre Koch, UTT President "Academia and training: How to foster Industrie 4.0"		
14:15	15:00	Round Table: Role of Academia and Education in Industrie 4.0 and Industrie du Futur Dr. Pierre Koch, UTT President Max Blanchet, Accenture Yves Leboucher, Standardization Council Industrie 4.0 Moderator: Prof. Farouk Yalaoui, UTT		
15:00	15:30	Coffee Break and Networking		
15:30	17:30	Session 2.1 Business and Standardization	Session 2.2 Practitioner Perspectives	Session 2.3 Security and Semantics
17:30	20:00	Networking Dinner		

May 4, 2018

		Topic		
08:45	09:30	Welcome notes of Chambers of Industry and Commerce (France/ Germany)		
09:30	10:00	Keynote 3: Jean-Daniel Weisz KOHLER Consulting & Coaching "Industry 4.0: differences and convergencies between France and Germany"		
10:00	10:30	Round Table: Networking across frontiers Dorothee Kohler, KOHLER Consulting & Coaching René Ohlmann, ADDI-DATA GmbH Jörg Castor, Mittelstand 4.0 Competence Center Stuttgart Moderator: Katja Kornetzky, Fraunhofer IOSB		
10:30	11:00	Coffee Break and Networking		
11:00	12:30	Session 3.1 Industrial Analytics	Session 3.2 Human Aspects	Session 3.3 Production and Energy
12:30	12:45	Closing note Workshop chairs		
12:45	13:30	Lunch		
13:30		Departure		

May 3, 2018 - Session Block 1

S1.1 Business and Marketplaces

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| 11:15 | Jean-Vincent Segard,
The Digital Success | Your digital transition with no fear |
| 11:45 | Dr. Jonathan Oesterle, OPTA LP | A Maturity Model for Assessing the Digital Readiness of Enterprise |
| 12:15 | Max Blanchet, Accenture | Five Major Trends in Industry X.0 |

S1.2 IIoT Infrastructure

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| 11:15 | Dr. Jürgen Seyler, Automation of Things Europe | OT Level SoA improves Programming Efficiency in Fog Computing |
| 11:45 | Dr. Bouziane Brik, UTT | Internet of Things in industry: Enabling technologies, applications, challenges and future trends |
| 12:15 | David Martínez,
National University of Colombia | Information Theory and Self Organization in Sensor Networks |

S1.3 Demo Talk

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| 11:15 | Andreas Ebner, Fraunhofer IOSB | Industrial Communication based on the OPC UA Publish/Subscribe Extension |
| 11:45 | Siddharth Ravikumar, Kalycito | Role of TSN and OPC UA in the Industrial Internet of Things and Factory Automation |
| 12:15 | Christian Lengenfelder,
Fraunhofer IOSB | Camera- and marker-based tool tracking |

May 3, 2018 - Session Block 2

S2.1 Business and Standardization

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| 15:30 | Yves Leboucher, VDE | National and international standardization approach of Industrie 4.0 concepts |
| 16:00 | Roland Heidel,
Kommunikationslösungen e.K. | The Essence of the Reference Architecture Model Industrie 4.0 (RAMI4.0) |
| 16:30 | Russell Kelly, Norelem | Towards a model of process-based prioritization of digital transformation projects and kpi selection |

S2.2 Practitioner Perspectives

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| 15:30 | René Ohlmann, ADDI-DATA | How to use Industry 4.0 concepts to increase process transparency and knowledge management on the shop floor |
| 16:00 | Dr. Stefan Kusterer,
connyun GmbH | Industrie 4.0 from a Practitioners Perspective |
| 16:30 | Dr. Christian Schmidt,
LOCOM GmbH | Digital Twin of a Supply Chain |
| 17:00 | Dr. Kym Watson,
Fraunhofer IOSB | Smart Factory Web |

S2.3 Security and Semantics

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| 15:30 | Steffen Pfrang,
Fraunhofer IOSB | IT-Security-Lab for Production |
| 16:00 | Philippe Entzmann,
PhE Conseil | Blockchain: give value to your data |
| 16:30 | Dr. Ljiljana Stojanovic,
Fraunhofer IOSB | Real-Time Analytics for Industrie 4.0 |

May 4, 2018 - Session Block 3

S3.1 Industrial Analytics

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| 11:00 | Paulin Couzon, UTT | Coordination of dynamic pricing and production decisions |
| 11:30 | Julius Pfrommer,
Fraunhofer IOSB | Distributed Manufacturing and Logistics Planning with Monte-Carlo Tree Search |
| 12:00 | Frank Benda,
University of Vienna | A machine learning approach for flow shop scheduling problems with alternative resources, sequence-dependent setup times, and blocking |

S3.2 Human Aspects

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| 11:00 | Prof. Lionel Amodeo, UTT | Training: a keystone for industrie 4.0 |
| 11:30 | Prof. Dr. Diethelm Bienhaus,
HS Mittelhessen | Development of a personalizable multimodal assistance system for assembly workplaces |
| 12:00 | Marco Gewohn,
Daimler AG Bremen | Man-system collaboration in quality control processes – approaches and outlook for the automotive industry |

S3.3 Production and Energy

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| 11:00 | Abbas Hamze, UTT | Optimization of the Location of Energy Plants in a Multi-Sources Energy System |
| 11:30 | Dr. Nhan Quy Nguyen, UTT | Energy supply chain and dynamic pricing |
| 12:00 | Menso Groenewegen,
Lovato Electric Energy and
Automation | Optimized Energy Management in Manufacturing |