Agenda

3rd Czech-German Workshop on Industrie 4.0
Human Robot Collaboration
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RICAIP Project Meeting

October 11 - 13, 2017, Saarbrücken

Day 1: October 11, 16:00 – 19:00, DFKI, Room Barwise HG -2.07

RICAIP Preparatory Working Meeting

16:00 – 16:30  Arrival, Registration, Coffee

16:30 – 18:00  RICAIP Project: administration, business plan, industry feedback, milestones and deliverables; Synergies to other joint projects (Presentation of ESIF projects of CIIRC)

18:00 – 19:00  Closed session joint projects under preparation CIIRC-DFKI
Day 2: October 12, 09:00 - 13:00, Innovation Lab MRK4.0 @ Power4Production

3rd Czech-German Workshop on Industrie 4.0: Human Robot Collaboration

08:30 – 09:00 Registration and Coffee

09:00 – 09:05 Welcome to the 3rd Czech-German Workshop on Industrie 4.0 (Prof. W. Wahlster, DFKI)

09:05 – 09:15 German-Czech Science Workshop on Industrie 4.0 (German Federal Minister of Education and Research Prof. J. Wanka, Video Message)

09:15 – 09:30 Welcome and Introduction to Industrie 4.0 and Human-Robot Collaboration at the RICAIP Project Partner ZeMA (Prof. R. Müller, ZeMA)

09:30 – 10:00 The German-Czech Innovation Lab MRK 4.0: Smart Industrial Services (Prof. W. Wahlster, DFKI)

10:00 – 10:20 CIIRC Research and Innovation Environment for Industry 4.0 (Prof. V. Mařík, CIIRC)

10:20 – 10:40 CEITEC Contribution to Czech-German Collaboration in Advanced Industrial Production and Mobility (Prof. P. Václavek, BUT CEITEC)

10:40 – 11:00 Recent Research on Human-Robot Collaboration at DFKI (Dr. T. Schwartz, M. Moniri, M.Sc., DFKI)

11:00 – 12:30 Demo Session HRC
- Hybr-IT and BaSys 4.0 Common Base System
- Mobile Robot Navigation and Monitoring through Mixed-Reality
- Multimodal Notification of Dynamically Adjustable Safety Zones
- Mixed Reality Systems for Cross-Site Production in Industrie 4.0
- Flexible HRC in the SmartF-IT Project
- 4by3: Effective and Safe Human-Robot Collaboration
- Innovative HRC Concepts for Automated Underbody Assembling Processes in Continuously Operating Lines

12:30 – 13:00 Transfer to DFKI
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Day 2: October 12, 13:00 – 17:00, DFKI, Room Reuse HG -2.17

RICAIP Project Meeting

13:00 – 14:30 Lunch and Demo Session AI@DFKI
- MADMACS - AI-assisted Worker Support in the Intelligent Repair Garage via Massively Multimodal Interaction (Dr. M. Feld)
- BPM Meets Industry 4.0 - Model-Based Production in an Intelligent Lego® Factory (S. Dadashnia, M.Sc.)
- Expense Control: A Gamified, Semi-Automated, Crowd-Based Approach for Receipt Capturing (M. Altmeyer, M.Sc.)
- FactOpt - Realtime Optimization and Scheduling of Production Processes (M. Köster, M.Sc.)
- Controlling and Mining Worker Activities in Assembly Processes (S. Knoch, M.Sc.)
- Pxio – Intelligent Pixel I/O for Digital Collaboration in Companies (Dipl.-Inf. (FH) L. Pica)
- Simulation for Human-Robot Teams in Hybr-iT (Dipl.-Inf. I. Zinnikus)
- climbtrack - Assistive Technology for Sport Climbing (F. Kosmalla, M.Sc.)

14:30 – 15:30 in parallel:
- Room Leibniz AB +1.29
  Joint session of RICAIP Steering Committee and Executive Board
- Room Barwise HG -2.07
  Session RICAIP Horizontal Issues, Dissemination and Communication
- Room Reuse HG -2.17
  Session Technologies and Use Cases

15:30 – 15:45 Coffee Break

15:45 – 16:10 The BaSys 4.0 Project
  (S. Knoch, M.Sc., DFKI)

16:10 – 16:35 The CIIRC Testbed I
  (Dr. P. Burget, CIIRC)

16:35 – 17:00 Implementation of Industry 4.0 in Production Machines – Selected Case Studies
  (Dr. P. Kolář, CIIRC)

17:00 – 17:10 Flexibility in Production Scheduling
  (Prof. Z. Hanzálek, CIIRC)

17:10 – 17:15 Closing Remarks
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Day 3: October 13, 09:00 – 11:00, DFKI, Room Reuse HG -2.17

MRK 4.0 Workshop

08:00 – 08:40 Overview on the Innovation Lab MRK 4.0: Robots and Interaction Technologies (Dr. T. Schwartz, M. Moniri, M.Sc., DFKI)

08:40 – 09:20 Planning and Brainstorming session: Use Cases for the distributed testbed in 2018

09:20 – 09:30 Coffee break

RICAIP Project Meeting

09:30 – 11:00 WP 2 and 3: Research and Innovation Agenda, Scientific Programme of Business Plan

11:00 Wrap Up, Lunch