

Agenda

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

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

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|----------------------|---|
| 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 |

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Day 2: October 12, 09:00 - 13:00, Innovation Lab MRK4.0 @ Power4Production

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

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| 08:30 – 09:00 | Registration and Coffee |
| 09:00 – 09:05 | Welcome to the 3rd Czech-German Workshop on Industrie 4.0
<i>(Prof. W. Wahlster, DFKI)</i> |
| 09:05 – 09:15 | German-Czech Science Workshop on Industrie 4.0
<i>(German Federal Minister of Education and Research
Prof. J. Wanka, Video Message)</i> |
| 09:15 – 09:30 | Welcome and Introduction to Industrie 4.0 and Human-Robot Collaboration
at the RICAIP Project Partner ZeMA
<i>(Prof. R. Müller, ZeMA)</i> |
| 09:30 – 10:00 | The German-Czech Innovation Lab MRK 4.0: Smart Industrial Services
<i>(Prof. W. Wahlster, DFKI)</i> |
| 10:00 – 10:20 | CIIRC Research and Innovation Environment for Industry 4.0
<i>(Prof. V. Mařík, CIIRC)</i> |
| 10:20 – 10:40 | CEITEC Contribution to Czech-German Collaboration in Advanced Industrial
Production and Mobility
<i>(Prof. P. Václavek, BUT CEITEC)</i> |
| 10:40 – 11:00 | Recent Research on Human-Robot Collaboration at DFKI
<i>(Dr. T. Schwartz, M. Moniri, M.Sc., DFKI)</i> |
| 11:00 – 12:30 | Demo Session HRC <ul style="list-style-type: none"> - 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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RICAIP Project Meeting

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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