### **RACIR 2021**

### 5th Robotix-Academy Conference for Industrial Robotics



#### **AGFNIDA**

	/(62/15/1
09:30 - 10:00:	Conference reception
10:00 - 10:15:	Welcome
10:15 - 10:40:	Mohamad Bdiwi - IWU Fraunhofer  New possibilities through collaborative robots in the heavy-duty sector
10:40 - 11:05:	
11:05 - 11:30:	Luisa Hornung - Hochschule Karlsruhe Human-Robot Collaboration: a Survey on the State of the Art
11:30 - 12:30:	focusing on Risk Assessment  Break - Exhibition and Postersession
12:30 - 13:00:	Guided Lab Tour
13:00 - 13:25:	Christopher - Schneider - Yaskawa Collaborative or Industrial Robot? An Economic Calculation Scheme to Determine th Optimal Robot Technology in Fenceless Machine Tending
13:25 - 13:50:	Alexej Simeth - Universität Luxemburg  Convolutional Neural Network for detection of fluid level in bores for assembly automation
13:50 - 14:15:	Stefan Marx - ZeMA A Concept for Object Detection and Localization based on Al and Computer Vision as a Basis for Bin Picking Applications
14:15 - 14:45:	Exhibition and Postersession
14:45 - 15:10:	Meryem Taghbalout - Universität Lorraine Robotic stripping with external position/force control applied to the Yumi collaborative robot
15:10 - 15:35:	
15:35 - 16:00:	Amir Dahouei - Innocise GmbH
16:00 - 16:25:	From nature to robotic: Synthetic micropatterned grippers <b>Tobias Elbert - UCB / ZeMA</b> Detection of cuts on vascular stents using convolutional neural networks





16:25 - 16:40: Closing Speech



From 16:40: DRV come around with a guided Lab Tour











**Contact:** E-Mail: racir@robotix.academy

Organized by: Umwelt-Campus Birkenfeld Campusallee D - 55768 Hoppstädten-Weiersbach

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#### **Postersession Presentators**

Christian Konstroffer - UCB Investigation of a concept for autonomous cleaning of

**Lisa Kopp UCB** - solar panels with a robotic system under consideration

of economic efficiency

Allister Pereira UCB MaRIO - A Cost-Effective Solution for

**Kevin Fuchs UCB -** Human-Robot Interaction

Henrik Schu UCB

Florian Schäfer UCB - Project - VIP-MRK

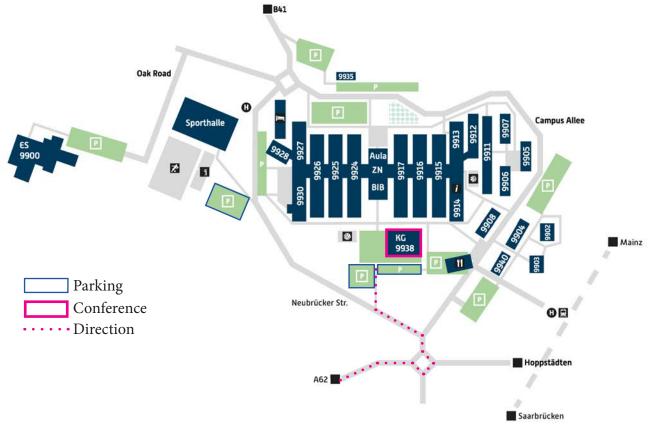
**Yves Windish UCB -** Project - MRK-Safe

**Exhibitors** 

B&R

**IGUS** 

**YASKAWA** 



















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