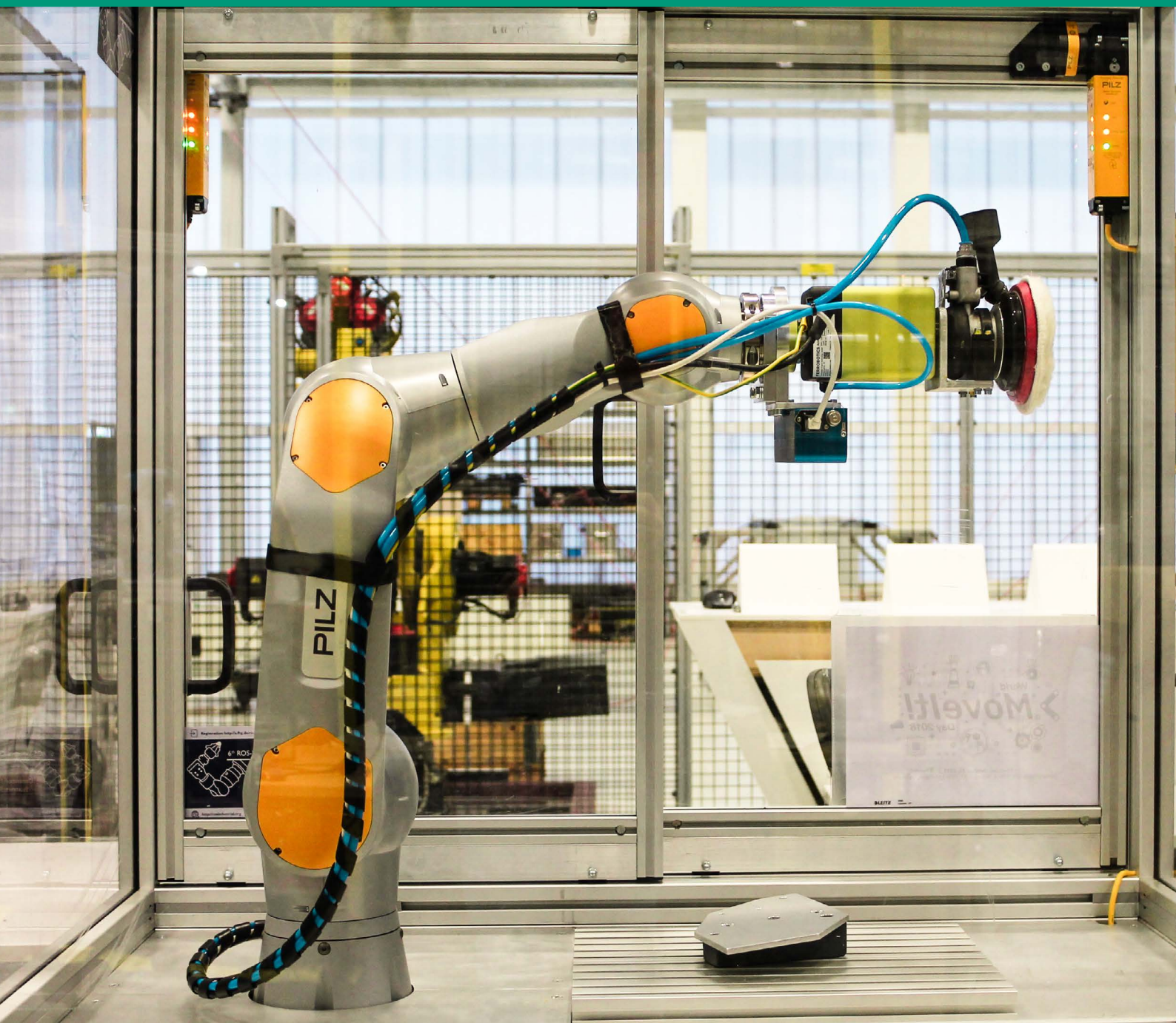


ROS-INDUSTRIAL CONFERENCE 2018

December 11-13, 2018 | Stuttgart





ROS-INDUSTRIAL CONFERENCE 2018

December 11-13, 2018 | Stuttgart

SESSION 1: EU ROS UPDATES

CHAIR: THILO ZIMMERMANN

TUESDAY,
DECEMBER 11

- 11:00 Registration opens | 12:30 Lunch
- 13:30 **Introduction to the ROS-Industrial Conference** - Mirko Bordinon, Fraunhofer IPA
- 13:40 **Welcome talk: Robotics impacts Industry and Society: What are the Numbers and Trends** - Martin Haegele, Fraunhofer IPA
- 14:10 **ROSIN: Advancing ROS in Europe** - Carlos Hernandez Corbato, TU Delft
- 14:40 Break
- 15:10 **Experiences and Outcomes of ROS Developments** - ROSIN FTP performers, including Nobleo Projects, Roboception, Pilz, PPM Robotics AS
- 16:10 **Training and Education Activities** - Stephan Kallweit, FH Aachen, and Jonathan Hechtbauer, Fraunhofer IPA
- 16:30 Break
- 17:00 **Quality Assurance Initiatives and Tool Development for ROS** - Adam Alami & Zhoulai Fu, IT Univ. Copenhagen
- Further Opportunities for Public funding*
- 17:40 **RobMoSys, Composable Models and Software for Robotics Systems** - Dennis Stampfer, HS Ulm
- 18:05 **SeRoNet, the Service Robotics Network** - Bjoern Kahl, Fraunhofer IPA
- 18:30 End of Session 1 | 19:15 Social Dinner, SI-Centrum

SESSION 2: SOFTWARE & SYSTEM INTEGRATION

CHAIR: MIRKO BORDIGNON

WEDNESDAY,
DECEMBER 12

- 09:00 **Session Keynote: Open-Source Robotics for Fun & Profit** - Dave Coleman, PickNik Consulting and Movelt!
- 09:40 **System Integration and Modularity in Robotics using ROS** - Victor Mayoral Vilches, Acutronic Robotics
- 10:10 **Ease-of-Use Packages between ROS and ABB Robots** - Jon Tjerngren, ABB
- 10:30 Break
- 11:00 **ROS on Embedded Devices - Recent Developments** - Ingo Luetkebohle, Robert Bosch
- 11:30 **ROS Software Quality Assessment through Static Code Analysis and Property-Based Testing** - André Santos, INESC TEC and University of Minho
- 11:55 **Official ROS Support: Making the most out of the new UR e-Series** - Anders Billesoe Beck, Universal Robots
- 12:15 Lunch

SESSION 3: ROBOTICS MEETS IT

CHAIR: MARTIN HAEGELE

WEDNESDAY,
DECEMBER 12

- 13:45 **A modular Deployment Platform for ROS modules, including Automotive Components** - Milad Geravand, Bosch Engineering
- 14:15 **Robotics in a Hostile World: Security, automated Maintenance and Upgrades** - Eric Jensen, Canonical
- 14:45 **AWS RoboMaker - Easily develop, test, and deploy Intelligent Robotics Applications** - Roger Barga, Amazon
- 15:15 Break
- 15:45 **dockeROS: Simply Running ROS Nodes in Docker Containers on Remote Robots** - Christian Henkel, Fraunhofer IPA
- 16:00 **Session Keynote: Robotics and Automation in the Age of the API Economy** - Henrik Christensen, UC San Diego and ROBO Global
- 16:40 **Google's Cloud Robotics: Helping Industries make use of Intelligent and Collaborative Automation** - Damon Kohler, Google
- 17:00 **Robotics meets IT Panel Discussion** - Moderator: Martin Haegele, Fraunhofer IPA ; Panelists: Henrik Christensen (UC San Diego), Oliver Goetz (SAP), Michael Grupp (magazino), Niels Jul Jacobsen (MiR), Damon Kohler (Google)
- 17:30 Transportation to Fraunhofer IPA for the evening program: Dinner, **demos and exhibits**, including robotic blending with Scan-n-Plan, Cloud Navigation, drag&bot, and others

SESSION 4: HARDWARE AND APPLICATION HIGHLIGHTS

CHAIR: BJOERN KAHL

THURSDAY,
DECEMBER 13

- 09:00 **RIC Americas Highlights and Advanced Robotics for Agile Aerospace Applications** - Paul Evans, SwRI / ROS-Industrial North America
- 09:30 **ROS on Industrial AGVs: Perception-Driven Load Handling and PLC Interfaces** - Karsten Bohlmann, E&K Automation
- 10:00 **Cobotta - a ROS-Enabled Collaborative Robot by Denso** - Arun Damodaran, DENSO
- 10:20 Break
- 10:50 **Cloud Navigation: Deployment Examples** - Felipe Garcia Lopez, Fraunhofer IPA
- 11:10 **Session Keynote: Flexible Automotive Assembly with Industrial Co-workers** - Fabian Fuerst, Opel, and Georg Heppner, FZI
- 11:50 **Pilz Service Robotics Modules - ROS for Service Tasks in Industry** - Thomas Pilz, Pilz
- 12:20 Lunch
- 13:30 **The Eclipse Foundation and its Robotics Activities** - Gaël Blondelle, Eclipse Foundation Europe
- 14:00 **ROS-Industrial Consortium Europe 2019 Outlook**
- 14:30 **Discussion**
- 15:30 End of the event

Please be advised that photos will be taken at the conference which may or may not include your recognizable image and may be used by Fraunhofer IPA and the ROS-IndustrialConsortia. If you do not wish to have us use your image, please notify the event organizer.

VENUE

DORMERO Hotel Stuttgart at SI-Centrum

Room: Dormero Saal A/B
Plieninger Straße 100
70567 Stuttgart
Germany

CONTACT

Fraunhofer Institute for Manufacturing Engineering und Automation IPA

Nobelstrasse 12 | 70569 Stuttgart | Germany

Mirko Bordinon
Phone +49 711 970-1629
mirko.bordinon@ipa.fraunhofer.de

Thilo Zimmermann
Phone: +49 711 970-1240
Mobile: +49 172 9526472
thilo.zimmermann@ipa.fraunhofer.de