ROS-INDUSTRIAL CONFERENCE 2018
December 11-13, 2018 | Stuttgart
### SESSION 1: EU ROS UPDATES
**CHAIR: THILO ZIMMERMANN**

- **11:00** Registration opens | 12:30 Lunch
- **13:30** Introduction to the ROS-Industrial Conference - Mirko Bordignon, Fraunhofer IPA
- **13:40** Welcome talk: Robotics impacts Industry and Society: What are the Numbers and Trends - Martin Haegele, Fraunhofer IPA
- **13:50** 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
- **15:40** 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 - Björn Kahl, Fraunhofer IPA
- **18:30** End of Session 1 | 19:15 Social Dinner, SI-Centrum

### SESSION 2: SOFTWARE & SYSTEM INTEGRATION
**CHAIR: MIRKO BORDIGNON**

- **09:00** Session Keynote: Open-Source Robotics for Fun & Profit - Dave Coleman, PickNik Consulting and MoveIt!
- **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

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### SESSION 3: ROBOTICS MEETS IT
**CHAIR: MARTIN HAEGELE**

- **13:45** A modular Deployment Platform for ROS modules, including Automotive Components - Milad Geravand, Bosch Engineering
- **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**

- **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 - Kansten Bohlmann, E&B 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
VENUE

DORMERO Hotel Stuttgart at SI-Centrum
Room: Dormero Saal A/B
Pleninger Straße 100
70567 Stuttgart
Germany

CONTACT

Fraunhofer Institute for Manufacturing Engineering und Automation IPA
Nobelstrasse 12 | 70569 Stuttgart | Germany

Mirko Bordignon
Phone +49 711 970-1629
mirko.bordignon@ipa.fraunhofer.de

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

http://www.ipa.fraunhofer.de/
http://rosindustrial.org/