

12:15 Lunch

## **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 (provided)	
13:30 Introduction to the ROS-Industrial Conference - Mirko Bordignon, Fraunho	ofer IPA
13:40 Welcome talk: Robotics impacts Industry and Society: What are the Nu Martin Haegele, Fraunhofer IPA	umbers and Trends -
14:10 <b>ROSIN: Advancing ROS in Europe</b> - Carlos Hernandez Corbato, TU Delft	
14:40 Break	
15:10 Experiences and Outcomes of ROS Developments - ROSIN FTP performers, including Nobleo Projects, Roboception, Pilz, and other	ers
16:10 Training and Education Activities - Stephan Kallweit, FH Aachen, and Jona	athan Hechtbauer, Fraunhofer IPA
16:30 Break	
17:00 Quality Assurance Initiatives and Tool Development for ROS - Adam Al	lami & Zhoulai Fu, ITU Copenhagen
Further Opportunities for Public funding	
17:40 RobMoSys, Composable Models and Software for Robotics Systems -	Dennis Stampfer, HS Ulm
18:05 <b>SeRoNet, the Service Robotics Network</b> - 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 Colema	n, Picknik Consulting and Movelt!
09:40 System Integration and Modularity in Robotics using ROS - Victor Mayo	oral Vilches, Acutronic Robotics
<ul> <li>O9:40 System Integration and Modularity in Robotics using ROS - Victor Mayor</li> <li>10:10 New Bridges between ROS and ABB Robots - Jon Tjerngren, ABB</li> </ul>	oral Vilches, Acutronic Robotics
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<ul><li>10:10 New Bridges between ROS and ABB Robots - Jon Tjerngren, ABB</li><li>10:30 Break</li></ul>	Robert Bosch

<b>SESSION 3: ROBOTICS</b>	<b>MEETS</b>	
CHAIR: MARTIN HAEGELE		

WEDNESDAY, DECEMBER 12

	ION 3: ROBOTICS MEETS IT :: MARTIN HAEGELE	WEDNESDAY, DECEMBER 12
13:45	A modular Deployment Platform for ROS modules, including Automotive Component Milad Geravand, Bosch Engineering	ts -
14:15	Secure Continuous Update Workflows and Complex Software Architectures for ROS - Eric Jensen, Canonical	
14:45	Cloud Navigation for AGV Cooperative Local Planning - Kai Pfeiffer, Fraunhofer IPA	
15:15	Break	
15:45	dockeROS: Simply Running ROS Nodes in Docker Containers on Remote Robots - Christian Henkel, Fraunhofer IPA	
16:00	<u>Session Keynote</u> : 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 Damon Kohler, Google	automation -
17:30	Transportation to Fraunhofer IPA for the evening program: <b>demos and exhibits</b> , including ro Acutronic, Cloud Navigation, drag⊥, Scan-n-Plan, and others (dinner refreshments provide	3
	ION 4: HARDWARE AND APPLICATION HIGHLIGHTS : 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 Session Keynote: Flexible Automotive Assembly with Industrial Co-workers -Fabian Fuerst, Opel, and Georg Heppner, FZI

11:30 Pilz Service Robotics Modules - ROS for Service Tasks in Industry - Thomas Pilz, Pilz

12:10 Lunch

13:30 Eclipse Foundation and its Robotics Activities - Gaël Blondelle, Eclipse Foundation Europe

**ROS-Industrial Consortium Europe 2019 Outlook** 

14:30 **Discussion** 

15:30 End of event

