

# ROS-Industrial Open Source Software for Automation & Robotics!



## ROS Industrial Asia Pacific Launch

This event facilitates interaction between representatives from industries, universities and the ecosystem of system integrators. Enabling knowledge sharing and expertise on ROS related applications and development. Participants will be able to obtain information on new technologies and recent trends in the ROS-Industrial community. A technical mapping session will be conducted to support the Asia community to address future needs and effort.

27—28 June 2018

Advanced Remanufacturing and Technology Centre (ARTC)

3 Cleantech Loop, CleanTech Two,  
#01-01, Singapore 637143

Participant Fee

# \$300

Includes Day 1 Lunch, Dinner,  
Day 2 Lunch and an event polo  
shirt.



[REGISTER NOW](#)

[www.eventnook.com/event/ros-iapworkshop2018](http://www.eventnook.com/event/ros-iapworkshop2018)

## Key Speakers



**Martin Szarski**  
Senior Technical Leader,  
Advanced Production  
Systems, Boeing Research &  
Technology

*Why Boeing is using  
ROS-Industrial*



**Dr. Michael Grey**  
Software Engineer,  
Open Source Robotics  
Corporation - Singapore

*Open Robotics' near-term  
feature goals for ROS2 and  
Gazebo*



**Paul Evans**  
Director,  
Manufacturing Technologies,  
Southwest Research  
Institute® (SwRI®)

*ROS-I Consortium America  
2017 Highlights and Future  
Directions*



**Dr. Ryan Chen**  
Special Assistant to  
Chairman,  
ADLINK Technology

*The Next-Generation Smart  
Manufacturing using ROS2*



**Dr. Mirko Bordignon**  
Group Manager,  
Fraunhofer IPA

*ROS-Industrial EU + ROSIN:  
Advancing robotics platforms  
through private + public support*



**Dr. Tony Wang**  
CEO,  
Jinan Tony Robotics Co., Ltd.

*RoboWare for Industry*



**Dr. Kim Seokhwan**  
Research Engineer,  
Hanwha Precision Machinery

*The Programming Environment  
for HCR series*



**Dr. Ryosuke Tajima**  
Representative Director,  
Tokyo Opensource Robotics  
Kyokai Association

*TORK's activities and new  
packages*



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# ROS-Industrial Open Source Software for Automation & Robotics!



**Dr. Milan Shah,**  
Development Manager,  
McKinsey Digital Capability  
Centre, Singapore

*Trends and Directions in Robotic  
Automation*



**Erik Boasson,**  
Senior Technologist,  
ADLINK Technology

*ROS2 and Microcontrollers*



**Dr. Francisco Suarez-Ruiz**  
Research Fellow,  
Nanyang Technological  
University, Singapore

*Making Industrial Robots Smart*



**Prof. Trygve Thomessen**  
Managing Director,  
PPM Robotics AS

*FlexGui 4.0—Opening the big  
ROS-I World to any End User*



**Rayner Ng**  
Director,  
National Robotics R&D  
Programme Office

*The Funding Initiatives - National  
Robotics R&D Programme Office  
(NR2PO)*



**Peter Tan**  
CEO,  
Blue Ocean Robotics SEA  
Pte Ltd

*Integrating New Technology and  
Trends into Open Innovation*

## ROS-Industrial Asia Pacific Workshop - 2018 Program Agenda

### Day 1 | 27 June 2018

TIME	TITLE	PRESENTER
8:00 AM	Bus Transport pick up from Park Avenue Rochester Hotel to ARTC	
8:30 AM	Registration, Coffee & Tea	
9:15 AM	Introduction to ARTC, A*STAR	Dr. David Low, ARTC
9:30 AM	ROS Industrial Consortium Asia Pacific after Bootstrapping	Min Ling Chan, ARTC
10:00 AM	ROS-I Consortium America's 2017 Highlights and Future Direction	Paul Evans, SwRI
10:30 AM	Coffee Break	
10:50 AM	Open Robotics' near-term feature goals for ROS2 and Gazebo	Dr. Michael Grey, Open Robotics
11:20 AM	Integrating New Technology and Trends into Open Innovation	Peter Tan, Blue Ocean Robotics
11:50 AM	Why Boeing is using ROS-Industrial	Martin Szarski, Boeing Research and Technology
12:20 PM	Lunch	
1:00 PM	Group Photo – Workshop (Level 1) Demonstrations and Exhibitions at Workshop (Level 1)	
2:00 PM	The Funding Initiatives - National Robotics R&D Programme Office (NR2PO)	Rayner Ng, National Robotics R&D Programme Office
2:30 PM	Making Industrial Robots Smart	Dr. Francisco Suarez-Ruiz, NTU
3:00 PM	Coffee Break	
3:30 PM	Lightning Talks	3 mins each
4:00 PM	ROS Technical Roadmapping Breakout Session: 1) Challenges with ROS 2) ROS-Industrial Asia Pacific Roadmap	Everyone
5:00 PM	Wrap up for Day 1	Min Ling Chan, ARTC
5:15 PM	Bus Transport from ARTC to Dinner	
6:00 PM	Networking Dinner at Morganfield's @ Star Vista	
9:00 PM	Dinner Event End Walk back to Hotel (opposite Dinner Location)	

### Day 2 | 28 June 2018

TIME	TITLE	PRESENTER
8:15 AM	Bus Transport pick up from Park Avenue Rochester Hotel to ARTC	
8:30 AM	Registration, Coffee & Tea	
9:00 AM	ROS-Industrial EU + ROSIN: advancing robotics platforms through private + public support	Dr. Mirko Bordignon, Fraunhofer IPA
9:30 AM	Trends and Directions in Robotic Automation	Dr. Milan Shah, McKinsey & Company
10:00 AM	The Next-Generation Smart Manufacturing using ROS2	Dr. Ryan Chen, ADLINK Technology
10:30 AM	Coffee Break	
10:50 AM	RoboWare for Industry, a Platform for Application Design	Dr. Tony Wang, Jinan Tony Robotics
11:20 AM	TORK's activities, new packages, jog control and teaching pendant	Dr. Tajima Ryosuke, Tokyo Opensource Robotics Kyokai Association
11:50 AM	FlexGui 4.0 – Opening the big ROS-I World to any End User	Prof. Trygve Thomessen, PPM Robotics AS
12:20 PM	Lunch	
1:00 PM	Exhibition & Demonstrations	
2:00 PM	Lightning Talks	3 mins each
2:30 PM	The Programming Environment for HCR Series	Dr. Kim Seokhwan, Hanwha Precision Machinery Company Limited
3:00 PM	Coffee Break	
3:30 PM	TBC	Asad Norouzi, Singapore Polytechnic
4:00 PM	ROS2 and Microcontrollers	Erik Boasson, ADLINK Technology
4:30 PM	Closing	
5:00 PM	Bus Transport pick up from ARTC to Park Avenue Rochester Hotel	



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