
Program

Time: August 30-September 1, 2018

Venue: Sheraton Shenyang South City Hotel, China

Registration
<i>Time: 09:00-22:00, August 30, 2018 (Thursday); Place: Lobby, Ground Floor</i>
Annual Meeting of Technology Innovation Strategic Alliance for Robot Industry
<i>Time: 18:30-20:30, August 30, 2018 (Thursday); Place: Meeting Hall 1, 1st Floor</i>

Opening Ceremony
<i>Time: 09:00-09:30, August 31, 2018 (Friday); Place: Conference Hall, 2nd Floor</i>

Keynote Forum	
<i>Time: 09:30-12:00, August 31, 2018 (Friday); Place: Conference Hall, 2nd Floor</i>	
Moderator	Dr. Ji Zhao , President, Northeastern University, China
09:30-09:35	Moderator's Introduction
09:35-09:55	Title: From Robotizing Humans to Humanizing Robots Dr. Abderrahmane Kheddar , Academician, National Academy of Technology of France (NATF), France; Director, CNRS-AIST Joint Robotics Laboratory, Japan
09:55-10:15	Title: From Automation to Autonomy: Intelligent Robotics for the Next Generation Dr. Sethu Vijayakumar FRSE, Director, Edinburgh Centre for Robotics Edinburgh University; Co-Director of The Alan Turing Institute, UK
10:15-10:35	Dr. Jie Zhao , Professor of Harbin Institute of Technology; Leader of National Key Research and Development Plan "Intelligent Robot" Key Special Expert Group, China
10:35-10:55	Title: <i>Vibration Control of Robotics Motion and Its Application to Smart Hospital</i> Dr. Kazuhiko Terashima , Vice President of Research Affairs, Toyohashi University of Technology, Japan
10:55-11:15	Title: Dr. Chengliang Liu , Professor of Shanghai Jiao Tong University; Deputy Leader of National Key Research and Development Plan "Intelligent Robot" Key Special Expert Group, China
11:15-11:35	Title: <i>State of the Art Technology for Driverless Industrial Vehicles</i> Mr. Mike Schaefer , SVP and CTO, Autonomous Solutions, USA

11:35-11:50	Development Introduction of Robot Industry in Shenyang City
11:50-12:00	Discussion

Overseas High-level Talents and Project Matchmaking Fair	
<i>Time: 14:00-18:00, August 31, 2018 (Friday); Place: Conference Hall, 2nd Floor</i>	
Moderator	Mr. Zhang Shuwei , Management Committee Deputy Director, Shenyang National University S&T City, China
14:00-14:05	Moderator's Introduction
14:05-14:15	Welcome Speech by Mr. Zhao Kai , Director, China Council for the Promotion of International Trade Shenyang Sub-council, China
14:15-14:25	Shenyang Policy Introduction for High-level Talents Mr. Jia Jia , Deputy Director, Talent Division Two, Organization Department of Shenyang Municipal Committee, China
14:25-14:45	<i>Title: Towards Autonomous Industrial Service Robotics</i> Dr. Huan Tan , Lead Scientist, GE Global Research, USA
14:45-15:05	<i>Title: Telepresence Robots for the Elderly: A Project Across Europe and Australia</i> Dr. Pradeep Kumar Ray , 1000 Talent Distinguished Professor, University of Michigan Joint Institute, Shaanghai Jiao Tong University, China; Honorary Professor and Founder WHO Collaborating Centre on eHealth, UNSW, Australia
15:05-15:25	<i>Title: Robotic Grinding, Polishing and Deburring, the Next Big Robotics Application</i> Mrs. Sera Zhou , Global Marketing Manager, 3M Abrasive Systems Division, USA
15:25-15:45	<i>Title: Advanced Manufacturing and Factory Automation with Robotics and SAP</i> Dr. Asuman Sünbül , IoT/Robotics/Manufacturing, SAP Labs, USA
15:45-16:05	<i>Title: Self-Driving and Self-Flying Vehicles Using Visually and Physically Realistic Simulations</i> Dr. Shital Shah , Principal Research Engineer, Microsoft Research, USA
16:05-16:25	<i>Title: Robotics for the Logistics Industry: Making Fixed Automation Flexible</i> Mr. Lukasz Drewnowski , Business Line Manager-China, Service Robotics - Robotics Distribution & Fulfilment, ABB Engineering (Shanghai) Ltd., Poland
16:25-16:45	<i>Title: Intelligent Surface Vehicle for Water Quality Monitoring</i> Professor Yong Yue , Head, Department of Computer Science and Software Engineering,

	Xi'an Jiaotong-Liverpool University (XJTLU), China
16:45-18:00	Free Communication

Hunnan Night Talk (High-end Experts' Talk)	
<i>Time: 18:00-20:00, August 31, 2018 (Friday); Place: Conference Hall, 2nd Floor</i>	
Part One: City Promotion	
Moderator	Mr. Li Jun , Director, Shenyang Hunnan District Municipal People's Government, China
Address	<i>Speech by</i> Mr. Yan Bingzhe , Deputy Mayor, Shenyang Municipal People's Government, China
Promotion	<i>Speech by</i> Mr. Zhao Ge , Management Committee Director, Shenyang National University S & T City, China
Part Two: High-end Experts' Talk	
Theme: Opportunities and Challenges: Create Robotic Industry Base with International Competitiveness	
Moderator	Dr. Xiaodan Mei , President, BIT Congress Inc., China
Guests	Mr. Li Jun , Director, Shenyang Hunnan District Municipal People's Government, China
	Dr. Sethu Vijayakumar FRSE, Director, Edinburgh Centre for Robotics Edinburgh University; Co-Director of the Alan Turing Institute, UK
	Dr. Huan Tan , Lead Scientist, GE Global Research, USA
	Dr. Daokui Qu , Founder and CEO, SIASUN Robot and Automation Co. Ltd.; Deputy Director of the National Engineering Research Center on Robotics; Chairman, Chinese Robot Industry Alliance, China
	Dr. Ji Zhao , President, Northeastern University, China

Module 1: Smart Robotics and Industry Automation	
<i>Time: 08:30-12:00, September 1, 2018 (Saturday); Place: Conference Hall 4, 1st Floor</i>	
Chair	Dr. Huan Tan , Lead Scientist, GE Global Research, USA
08:30-08:35	Chair's Introduction
08:35-09:05	<i>Title: Humanoid Robotics in Large-scale Manufacturing: The AIRBUS Case Study</i> Dr. Abderrahmane Kheddar , Academician, National Academy of Technology of France (NATF),

	France; Director, CNRS-AIST Joint Robotics Laboratory, Japan
09:05-09:35	<i>Title: Study on Tactile Terrain Surface Classification for Ground Mobile Robots</i> <i>Dr. Xiangrong Xu, Professor, Anhui University of Technology, China</i>
09:35-10:05	<i>Title: Digitizing Construction: Applying Robotics to the 21st-Century Construction Site</i> <i>Dr. Bharath Sankaran, Co-Founder (CTO), Scaled Robotics, Spain</i>
10:05-10:20	Coffee Break
10:20-10:50	<i>Title: Boosting Service Robotics with Cloud Computing - New Visions into The Fourth Industrial Revolution</i> <i>Dr. Gabriele Ermacora, CEO, Hotblack Robotics, Italy</i>
10:50-11:20	<i>Title: Robotics and AI in Mobile Working Machine Industry</i> <i>Dr. Reza Ghabcheloo, Associate Professor, Tampere University of Technology, Finland</i>
11:20-11:50	<i>Title: Increase Productivity and Energy Efficiency with Smart Robot Motion</i> <i>Mr. Georg Friedrich Stieler, Managing Director, STIELER, Germany</i>
11:50-12:00	Discussion

Module 2: Smart Innovation and Key Techniques in Robotics	
<i>Time: 08:30-12:10, September 1, 2018 (Saturday); Place: Conference Hall 6, 1st Floor</i>	
Chair	<i>Dr. Zheng Fang, Associate Professor, Northeastern University, China</i>
08:30-08:35	Chair's Introduction
08:35-09:05	<i>Title: Shared Autonomy: The Future of Interactive Robotics</i> <i>Dr. Sethu Vijayakumar, Fellow of the Royal Society of Edinburgh; Director of Edinburgh Centre for Robotics Edinburgh University, UK</i>
09:05-09:30	<i>Title: System Architecture for Human Robot Interaction and its Impact on User Experience</i> <i>Mr. Timothy Gifford, Founder and CTO, Movia Robotics, USA</i>
09:30-09:55	<i>Title: Toward Network-based Humanoid 'MAHRU' Integrated with Intelligence for Autonomy</i> <i>Dr. Bum-Jae You, Director, Center of Human-centered Interaction for Coexistence; Principal Research Scientist, Center for Intelligent Robotics, KIST, South Korea</i>
09:55-10:20	<i>Title: New Approach to Living Safety Using Cognitive, Connective, and Collaborative Living Labs</i> <i>Dr. Yoshifumi Nishida, Senior Researcher, Artificial Intelligence Research Center, National Institute of Advanced Industrial Science and Technology (AIST), Japan</i>
10:20-10:30	Coffee Break

10:30-10:55	Title: <i>Application of Pattern Matching of Weld Pool to Seam Tracking in Robotic Welding</i> Dr. Satoshi Yamane , Associate Professor, Saitama University, Japan
10:55-11:20	Title: <i>Sound Source Localization for Humanoid Robot</i> Dr. Youngjin Park , KEPCO Endowed Chair Professor, Director, Center for Noise and Vibration Control+ , Department of Mechanical Engineering, KAIST, South Korea
11:20-11:45	Title: <i>Further Consideration on the Current Control Loop in Joint Motors of Robotic Systems</i> Dr. Zhihong Man , Professor, Faculty of Science, Engineering and Technology, Swinburne University of Technology, Australia
11:45-12:10	Dr. Zheng Fang , Associate Professor, Northeastern University, China

Module 3: AI and Robotics	
<i>Time: 13:30-16:00, September 1, 2018 (Saturday); Place: Conference Hall 4, 1st Floor</i>	
Chair	Dr. Reza Ghabcheloo , Associate Professor, Tampere University of Technology, Finland
13:30-13:35	Chair's Introduction
13:35-14:05	Title: <i>Collective Intelligence for Hyperconnected IoT and Mobile Edge Computing</i> Dr. Hee Yong Youn , Director of Ubiquitous computing Technology Research Institute (UTRI), College of Software, Sungkyunkwan University, South Korea
14:05-14:30	Title: <i>Management and Policy Challenges in the Fourth Industrial Revolution: Mitigating Risk, Building Adaptive Capacity</i> Dr. Takis Damaskopoulos , Executive Director, European Institute of Interdisciplinary Research, France
14:30-14:55	Title: <i>Building a Robotics Startup, The Decathlon for Startup</i> Mr. Thomas Aubry , CTO, MV ROBOT, France
14:55-15:20	Title: <i>AI and Robotics</i> Dr. Jun Miyazaki , CEO, OrangeTechLab, Japan
15:20-15:45	Title: <i>The Role of Active Vision Systems and It's Applications in Robotics and Autonomous Driving</i> Dr. Hafiz Muhammad Owais , Advance Innovation Center for Intelligent Robots and Systems, China
15:45-16:00	Discussion

Module 4: Health & Medical Robotics	
<i>Time: 13:30-16:00, September 1, 2018 (Saturday); Place: Conference Hall 6, 1st Floor</i>	

Chair	<i>Dr. Shijie Guo</i> , 1000 Talent Distinguished Professor, Hebei University of Technology, China
13:30-13:35	Chair's Introduction
13:35-14:05	<p><i>Title:</i> <i>Medical Round Supporting Robot “Terapio” and Assisted Gait Training Robot “Niltwamor and Lucia” to Build Smart Hospital</i></p> <p><i>Dr. Kazuhiko Terashima</i>, Vice President of Research Affairs, Toyohashi University of Technology, Japan</p>
14:05-14:30	<p><i>Title:</i> <i>Developing Robot Companions for Elderly</i></p> <p><i>Dr. Jim Torresen</i>, Professor, Department of Informatics, University of Oslo, Norway</p>
14:30-14:55	<p><i>Title:</i> <i>The Future of Augmented Reality for Surgery and Its Impact</i></p> <p><i>Dr. Abdelkrim Belhaoua</i>, CEO, Shenzhen Mars Medical Robot, China</p>
14:55-15:20	<p><i>Title:</i> <i>Biomimetic Design of A Chest Carrying Nursing-care Robot for Transfer Task</i></p> <p><i>Dr. Shijie Guo</i>, 1000 Talent Distinguished Professor, Hebei University of Technology, China</p>
15:20-15:45	<p><i>Title:</i> <i>Human-robot Interaction based on EEG and EMG</i></p> <p><i>Dr. Hong Wang</i>, Professor, Northeastern University, China</p>
15:45-16:00	Discussion