

IEEE ARSO 2016 Conference Program (V2.15)

The presentation schedule may be modified in the final program

July 7th, 2016 (Thursday)

Time	Content	Speaker	Subject	Presiders	Place
08:00 - 20:00	Registration			Huabin CHEN, Yong TAO	Reception Hall of the Hotel
	Visiting the 2016 China International Robot Show, CIROS'2016; National Exhibition and Convention Center, Shanghai, China. No.333 Songze Avenue, Qingpu District, Shanghai, P.R.China				
15:30-17:30	Panel Seminar for <i>CIROS'2016</i>			Kazuhito YOKOI, Qixi CAO	Room No. M3-02 NECC
19:30 - 20:30	Welcome Reception;			T J Tarn, Toshio FUKUDA, Jiluan PAN	Council Chamber

July 8th, 2016 (Friday)

Time	Content	Speaker	Subject	Presiders	Place
08:30-08:50	Opening Ceremony	Introduce guests,		Chair Shanben CHEN	
		Prof. Tzyh Jong TARN, Prof. Toshio FUKUDA, Dr. Kazuhito YOKOI, Prof. Baode SUN	Chairman, advisor guests and amphitryon's addresses		
08:50-09:00	Theme Address	Prof. Jiluan PAN Tsinghua Univ.	Development of Intelligent Welding Robot	Chair Tianmiao WANG Co-chair YuMing ZHANG	Ball Room
09:00-09:30	Theme Address	Dr. Xiaogang SONG Executive director and Secretary General of China robot industry alliance	Development Status of Chinese Robot Industry		
09:30-10:10	Plenary Speech	Dr. Shinsuke SAKAKIBARA FANUC Co., Japan	Reinforcement of Manufacturing by Utilizing Robotics, IoT and AI		
10:10-10:30	<i>Coffee Break</i>				
10:30 - 11:10	Plenary Speech	Prof. Ren C. LUO National Taiwan Univ.	Intelligent Robots Encompassing Human Society: Are You Ready?	Chair Zhidong WANG	Ball Room
11:10-11:50	Plenary Speech	Dr. Christian LAUGIER INRIA, France	Towards fully Autonomous Driving? The Perception & Decision-making bottleneck	Co-chair Tora KOYAMA	
11:50 - 12:10	Keynote Speech	Prof. Tianmiao WANG Beihang Univ.	Thinking on the Development of Chinese Service Robots		
12:10 - 13:10	<i>Lunch Time</i>				
13:10-13:35	Invited Tech. Talk	Dr. Xiaolong FENG ABB Robot Co. Sweden	Advanced Robotics Research at ABB	Chair Xiaoqi CHEN Co-chair Hao LU	Ball Room
13:35-14:00	Invited Tech. Talk	Heron LIU Guangzhou Ruisong intelligent Polytron Technologies Inc	Production line of intelligent manufacturing equipment for welding technology		
14:00-14:25	Invited Tech. Talk	Shuo-peng ZHOU Shanghai STEP Electric Corporation	The technical trends and application prospects for the development of Chinese industrial robots		
14:25-14:50	Invited Tech. Talk	KUKA Co.	Adaptive Arc Welding of the KUKA robot with Vision Based Sensors		
14:50-15:30	Interactive Session I & Coffee Break				
Session 1: OS : The Social Rules between Humans and Robotics					
15:30 - 15:50	Keynote Speech	Prof. Tora KOYAMA Osaka Univ., Japan	#47 Ethical Issues of Social Robots	Chair Qixin CAO Co-chair Shuo WANG	Ball Room
15:50 - 16:02	OS: Paper	#44	ANSHIN enhances social value of service robot		
16:02 - 16:14	OS: Paper	#40	One being for Two origins. -A necessary awakening for the future of robotics-		
16:14 - 16:26	OS: Paper	#45	Responsibility in the Age of Autonomous Machines		
16:26 - 16:38	OS: Paper	#46	The Preliminary Analysis on the Laws of Robotics in Japan -Using Automated Vehicles as Examples-		
16:38 - 16:50	OS: Paper	#36	New System-Design Model using Action Research in a Disaster Area		
Session 2: Service Robotics					
16:50 - 17:10	Keynote Speech	Prof. Weidong CHEN Shanghai Jiaotong Univ.	Improving Safety and Autonomy of Intelligent Wheelchair in Dynamic Environments	Chair Lining SUN	
17:10 - 17:22	Paper	#8	Robot System for the Sustainable Mobility Assurance in the Assistance and Care		

Interactive Session I
#3, #7, #23, #26, #29,
#31, #34, #43, #50,
#51, #52, #57, #62, #66

17:22 - 17:34	Paper	#11	Development of a Novel Robotic Omni-directional Hospital Bed Mover for Patient Transfer	Co-chair Qingyi GU	Ball Room
17:34 - 17:46	Paper	#49	Make Kilobots Truly Accessible to All the People around the World		
17:46 - 17:58	Paper	#14	Socializing with Robots: Human-Robot Interactions within a Virtual Environment		
18:30-21:00	Conference Banquet (The Award Ceremony for Tech. Co-sponsors)			Prof. Tzyh Jong TARN, Prof. Toshio FUKUDA	

July 9th, 2016 (Staurday)

08:30-09:10	Plenary Speech	Prof. Ning XI Michigan State Univ. & Hong Kong Univ.	Manufacturing Automation in the Information Era	Chair Zhidong WANG	Ball Room
09:10-09:50	Plenary Speech	Prof. Shigeki SUGANO Waseda Univ., Japan	Intelligent Human-Robot Interaction	Co-chair Xueming HUA	
09:50 - 10:10	Keynote Speech	Prof Yuming ZHANG University of Kentucky, USA	Human-Robot Collaborative Welding		
10:10-10:30	<i>Coffee Break</i>				
Session 3: Advanced Robotic Sensing and its Applications					
10:30 - 10:50	Keynote Speech	Prof. Xiaoqi CHEN Shanghai Jiaotong Univ.	Robotic 3D Grinding for Superalloys	Chair Shaoyuan LI Co-chair Zhuguo LI	Ball Room
10:50 - 11:10	Keynote Speech	Prof. Qingyi GU IA, CAS	Real Time High Speed Vision and Its Applications		
11:10 - 11:25	Invited Paper	Prof. Jing XU Tsinghua Univ.	#19: Non-vector space visual servo for multiple pin-in-hole assembly robot		
11:25 - 11:37	Paper	#17	A Real-time Object Tracking and Image Stabilization System for Photographing in Vibration Environment using OpenTLD Algorithm		
11:37 - 11:49	Paper	#27	Vision-based Range Finder for Automated Guided Vehicle Navigation		
11:49 - 12:01	Paper	#25	A Single Dipole-based Localization Method in Near Magnetic Field using IMU Array		
12:01 - 12:13	Paper	#42	Performance improvement of photographer robot using multiple human detection system to activate the community		
12:13-13:10	<i>Lunch Time</i>				
Session 4 : Intelligent Manufacturing and Advanced Industrial Robots I					
13:10 - 13:30	Keynote Speech	Prof. Lining SUN Soochow Univ.	Innovation and R&D: a view from the intelligence manufacturing	Chair Dong DU Co-chair Ding FAN	Ball Room
13:30 - 13:50	Keynote Speech	Prof. Qixin CAO Shanghai Jiaotong Univ.	#60 Study on Ubiquitous Robotic Systems for Smart Manufacturing Program		
13:50 - 14:05	Invited Paper	Prof. Jian HUANG Shanghai Jiaotong Univ.	#65 Robot-based laser wire welding of ship steel plates		
14:05 - 14:17	Paper	#61	OROCOS-Based Control System For 6 DOF Industrial Manipulator		
14:17 - 14:29	Paper	#4	Electron beam introduced Cu melting for MWCNT/Cu hybrid nanowire		
14:29 - 14:41	Paper	#33	Research on The Automatic Measurement Algorithm of Spherical Valves		
14:41 - 14:53	Paper	#54	Proposal and Basic Experiments of a Water-Jet Pipe Inspection System		
14:53-15:30	Interactive Session II & Coffee Break				
Session 5: Intelligent Manufacturing and Advanced Industrial Robots II					
15:30 - 15:50	Keynote Speech	Prof. Shanben CHEN Shanghai Jiaotong Univ.	#38 Intelligentized Robot Technology in Welding Manufacturing	Chair Xiangdong JIAO	Ball Room
15:50 - 16:05	Invited Paper	Dr. Huabin CHEN Shanghai Jiaotong Univ.	#55 High temperature full-field strain measurement based on digital image correlation during arc welding	Co-chair SU WANG	
16:05 - 16:17	Paper	#37	An Ear Plate Reinforced Ring Welding Robot System with Intelligent Recognition Function		
16:17 - 16:29	Paper	#39	A Coarse-to-fine Approach for Industrial Meter Detection and Its Application		
Session 6: Advanced Robot Design and Control					
16:30 - 16:50	Keynote Speech	Prof. Shuo WANG IA, CAS	Progress on Underwater Biomimetic Vehicle-Manipulator System	Chair Weidong CHEN Co-chair Xinhua TANG	Ball Room
16:50 - 17:05	Invited Paper	Dr. Yong TAO Beihang Univ.	#2 A State and Fault Prediction method Based on RBF Neural Networks		
17:05 - 17:17	Paper	#18	Human-Aware Motion Planning Based On Search And Sampling Approach		
17:17 - 17:29	Paper	#12	Learning Adaptive Reaching Skills with Nonlinear Dynamical Systems Directly from Human Demonstrations		
17:29 - 17:41	Paper	#6	A new approach to In-Pipe Locomotion QuestionMe Technique Increasing Open Innovation Efficiency in Petroleum Robotics		
17:41 - 17:53	Paper	#13	A CPG-based control method for the rolling locomotion of a desert spider		

Interactive Session II
#16, #21, #22, #24,
#28, #30, #32, #35,
#41, #53, #56, #63, #64

Move to the Lianyi Loquat Ecological Park for Farewell Dinner			
18:30-20:30	Farewell Dinner	Zhidong WANG Shanben CHEN	Lianyi Loquat Ecological Park

July 10th, 2016 (Sunday)

09:00 -11:30	Visit the Lab of SJTU	Hesheng WANG Yanling XU	SJTU
11:30--12:00	Summary of ARSO'2016&CCRW'2016	Prof. Zhidong WANG Prof. Shanben CHEN	
12:00--13:00	Lunch at the LiuYuan, SJTU		
THE END			