



**2018 International Conference on
Robotic Welding, Intelligence and Automation (RWIA'2018)
&
The 12th Chinese Conference on
Robotic Welding (CCRW'2018)**

CONFERENCE BRIEF PROGRAM

1. General schedule of RWIA'2018&CCRW'2018

RWIA'2018&CCRW'2018

Date: December 7th , 2018		
Time	Agenda	Place
9:00-20:00	Registration	Main Hal, DoubleTree by Hilton
15:00-17:30	The Establishment Conference of Guangdong Robot Innovation Center & The 2018 Eexpert Symposium on Robot Industry Innovation and Development of Guangdong-Hong Kong-Macau Greater Bay Area	Science Hall, second floor, Luogang International Conference Centre
Date: December 8th , 2018		
8:30-12:00	Opening Ceremony & Plenary Speech	Banquet Hall, DoubleTree by Hilton
13:30-17:00	Invited Keynote / invited Technical Report	Banquet Hall, DoubleTree by Hilton
Date: December 9th , 2018		
8:30-12:00	Invited Keynote Speech	Banquet Hall, DoubleTree by Hilton
13:30-14:30	Cooperation between production, college and research units to sign contracts/ Ttalent job fair	Banquet Hall, DoubleTree by Hilton
14:30-17:30	CCRW'2018 session	Banquet Hall, DoubleTree by Hilton
13:30-17:30	RWIA 2018 session	Guangzhou Hall, DoubleTree by Hilton
Date: December 10th , 2018		
8:30-12:00	Visit Guangzhou Development Zone and Robot	
12:30-14:00	Lunch	
14:00	End	

2. Report Schedule of RWIA'2018&CCRW'2018

Time: 7-10 December 2018

Venue: Guangzhou Huihua DoubleTree by Hilton,
Luogang Convention Center of Guangzhou Development Zone

Date: December 7th, 2018					
Time	Topic			Chairs	Place
8:00-20:00	Registration Guangzhou Huihua DoubleTree by Hilton			Tao LIN Huabin CHEN	Main Hal, DoubleTree by Hilton
15:00-17:30	The Establishment Conference of Guangdong Robot Innovation Center & The 2018 Eexpert Symposium on Robot Industry Innovation and Development of Guangdong-Hong Kong-Macau Greater Bay Area			Guangdong Official Representative, Erbin LIU, Shanben CHEN	Science Hall, second floor, Luogang International Conference Centre
19:30	The meeting of Advisor Committee, Organization Committee and Program Committee			Shanben CHEN	Council Chamber
Date : December 8th, 2018					
Time	Classification	Speaker	Topic	Chairs	Place
8:30-9:30	Opening Ceremony	Introduction Guests	Chairman, advisor guests and amphitryon's address	Shanben CHEN	Banquet Hall, DoubleTree by Hilton
	Theme Address	Jiluan PAN etc.	Address by host, guest and institutes		
9:30-10:00	Plenary Speech	Toshio FUKUDA Nagoya University	Multi-Scale Robotic System	Jicai Feng Erbin LIU	Banquet Hall, DoubleTree by Hilton
10:00-10:10	Tea Break				
10:10-10:40	Plenary Speech	Ren C. Luo Taiwan University	AI and Robotics Activating Intelligent Manufacturing Paradigm Shift: Dynamic Welding as an Exemplary Best Practice	Yu-Ming ZHANG Shi He	Banquet Hall, DoubleTree by Hilton
10:40-11:10	Plenary Speech	Ning XI The University of Hong Kong	Robotics and Automation in the Information Era		
11:10-11:40	Plenary Speech	Han DING HUST	Future of Robotics: The Tri-Co (Coexisting-Cooperative-Cognitive) Robots		
11:40-12:10	Plenary Speech	Tianmiao Wang BUAA	The robot chance and challenge in China		
12:10-13:30	Lunch				

13:30-14:00	Keynote Speech	Zhili FENG, ORNL,	Intelligent Welding Quality Control with Reversed Electrode Images (REI)	Xiao-qi CHENLin-Shu WANG	Banquet Hall, DoubleTree by Hilton
14:00-14:30	Keynote Speech	Christian LAUGIER, INRIA-IRISA	Dynamic Scene Understanding and Upcoming Collision prediction to make Autonomous Driving safer: A Bayesian Approach		
14:30-15:00	Invited Technical Report	EMIL Schubert, IBG	Innovative robotic solutions for both traditional articulated arm robots and new collaborative robots in gas metal arc welding.		
15:00-15:30	Invited Technical Report	Austria Fronius Gerd Holzschuh (Global Director R&D)	World Population Growth and Urbanization as the Driving Force to Welding Process Control 4.0		
15:30-15:40	Tea Break				
15:40-16:10	Invited Technical Report	Erbin LIU, GuangZhou Risong	Tha Application Tread of Intelligent Manufacturing System with Industrial Robotics	Xiangdong JIAOSu WANG	Banquet Hall, DoubleTree by Hilton
16:10-16:40	Invited Technical Report	Being recommended and selected	To be determined		
16:40-17:20	Invited Technical Report	Being recommended and selected	To be determined		
17:20-17:50	Invited Technical Report	Being recommended and selected	To be determined		
17:50-18:00	Adjournment and Movement				
18:00-20:00	Banquet			Shanben CHEN, Erbin LIU	
Date: December 9th, 2018					
Time	Classification	Speaker	Topic	Chairs	Place
8:30-8:55	Keynote Speech	Wei ZHOU, NTU, SG	Challenges in Development of Wall-Climbing Robots	Xijun Liu Dong Du	Banquet Hall, DoubleTree by Hilton
8:55-9:20	Keynote Speech	Yuming ZHANG, UK, USA	Machine Learning Based Detection of Weld Joint Penetration from Weld Pool Reflection Images		
9:20-9:45	Keynote Speech	Xiaoqi CHEN UC, NL	Robotic 3D Grinding for Superalloys		
10:10-10:35	Keynote Speech	Xijun Liu Tsinghua University	Innovation of Robotized Manufacturing Equipments		

10:35-10:45	Tea Break				
10:45-11:10	Keynote Speech	Xianmin Zhang, SCUST	Perspectives of reliability technology of robotic equipment	Huiju Li Ding FAN	Banquet Hall, DoubleTree by Hilton
11:10-11:30	Keynote Speech	Heping CHEN TSU, USA	Optimal Welding Parameter Learning for Robotic Arc Welding Process		
11:30-11:50	Keynote Speech	Zengxi PAN, UW, AUS	Thermal behaviour in Wire Arc Additive Manufacturing: characteristics, effects, and control		
11:50-12:10	Keynote Speech	Shanben CHEN, SJTU	Hybrid Intelligent problems in Intelligent Welding Manufacturing Systems: <i>Background and Methodology</i>		
12:10-13:30	Lunch				
RWIA2018 Venue					
13:30-16:00	RWIA 2018 Venue Invited Speech (15 mins per speech)	Invited Speech Ding FAN	Progress and Trend of Intelligent Sensing and Control of Weld Pool in Arc Welding process	Xianmin ZhangHuang ZHANG	Guangzhou Hall, DoubleTree by Hilton
		Invited Speech Liming LIU,	Control Mechanism of Laser induced Arc and its Application in Welding		
		Invited Speech Baohua YUAN,	Research on the On-line Detection Technology for automatic seam-tracking of T-joint from backside		
		Slected Technical Report	Digital Factory		
		Slected Technical Report Huajun Zhang	Intelligent Welding Manufacturing Workshop for large lifting equipment Box girder		
		Slected Technical Report ET-3 (Being recommended and selected)	To be determined		
		Slected Technical Report ET-4 (Being recommended and selected)	To be determined		

16:00-16:10	Tea Break				
16:10-17:30	RWIA 2018 Paper Report (10 mins per report)	Slected Papers	Being recommended and selected	Jiaxiang XUE Shiyu SHI	
CCRW2018 Venue					
13:30-14:00	Joint Meeting of Industry, University and Research	Risong, HIT, SJTU, etc	Cooperation between production, college and research units to sign contracts	Risong	Banquet Hall, DoubleTree by Hilton
14:00-14:30	Joint Meeting on Recruitment of Talents	Risong, HIT, SJTU, etc	Ttalent job fair	Guangdong Official Representative,	Banquet Hall, DoubleTree by Hilton
14:30-16:00	CCRW 2018 Venue (15 mins per speech)	Invited Speech Jiaxiang XUE,	Study on unsteady numerical Simulation and process of Dual-pulse Welding	Liming LIUGaungjun ZHANG	Banquet Hall, DoubleTree by Hilton
		Invited Speech, Guangjun ZHANG	Research on GMA material augmentation and repair Technology of large chain Tooth Robot		
		Invited Speech Hui GAO	The development of underwater friction welding technology,		
		Slected Technical Report Debin CHENG,	Copper Bar Intelligent Welding Technology and system		
		Slected Technical Report	Industrial Internet and big data		
		Slected Technical Report	To be determined		
16:00-16:10	Tea Break				

16:10-17:30	CCRW 2018 Paper Report (10 mins per report)	Slected Papers	Being recommended and selected	Yonghua SHI Tao LIN	
17:30-18:00	Adjournment and Movement				
18:00-20:00	Farewell Banquet			Xiangdong JIAO, Ding FAN	
20:00	Committee for excellent papers			Shanben CHEN	
Date: December 10th, 2018					
8:30-12:00	Visit Guangzhou Development Zone and Robot Enterprises			Guobao TANG, Dongsheng Zhang	
12:00-14:00	Lunch				
14:00	The End				

Note: The final program is subject to the version issued by the registration desk on December 7.