

### GENERAL SESSION TOPICS

GS1 Machine Learning & Autonomous Driving (5)	GS2 Image Processing I (4)
GS3 Image Processing II (4)	GS4 Robotics (5)
GS5 Applications I (6)	GS6 Applications II (5)

### ORGANIZED SESSION TOPICS

OS1 Human-Machine Interface (7)	OS2 Computer and Information Engineering (3)
OS3 Robot Path Planning (6)	OS4 Robot Images and Motion (3)
OS5 Intelligent Life and Cybersecurity (7)	OS6 Intelligent Algorithm Application (7)
OS7 Intelligent Robotics and Systems (6)	OS8 Intelligent Systems and Applications (8)
OS9 Pattern Recognition and Control I (7)	OS10 Pattern Recognition and Control II (7)
OS11 Industrial Artificial Intelligence Robotics (7)	OS12 Advances in Field Robotics and Their Applications (9)
OS13 Research Towards the Renewable Energy and the Sustainable Development Goals (SDG's) / Part A (5)	OS14 Research Towards Renewable Energy and the Sustainable Development Goals (SDG's)/ Part B (4)
OS15 Robotic Manipulation (5)	OS16 Natural Computing (3)
OS17 Artificial Intelligence for Embedded Systems and Robotics (10)	OS18 Robotics in Biophilic-Designed Space Toward Co-existence of Humans, Robots, and Plants (4)
OS19 Intelligent Control (4)	OS20 Applications (6)
OS21 Applications of Information Technology for Better Living (5)	OS22 Navigation and Tracking (3)
OS23 Mathematical Informatics (10)	OS24 New Media Interactions (4)
OS25 Robotic and Communications (6)	OS26 Navigating the Digital Frontier: Innovations in the Age of Industry Revolution 4.0 (13)
OS27 Industrial Revolution (4)	

**TIME TABLE (2/13)**

**Local time in Japan**

2/13(Thu.) 17:30-19:30	Welcome Party (Oita Century Hotel)
2/16(Sun.) 15:00-16:00	Farewell Party

**TIME TABLE (2/14)**

2/14(Fri.)	Room 403	Room 404	Room 405	Room 406 Remote Session	Room 407 Remote Session
9:40-	Registration (407)				
10:00-11:15	OS7 Intelligent Robotics and Systems (6) Chair: Kuo-Hsien Hsia will be ended before 11:30	OS19 Intelligent Control (4) Chair: Yingmin Jia	GS6 Applications II (5) Chair:	OS14 Research Towards Renewable Energy and the Sustainable Development Goals (SDG's)/ Part B (4) Chair: Firas Basim	
11:15-11:30	Coffee Break				
11:30-12:00	Chair: Marion Oswald (Room 302, 303) Opening Ceremony				OS25-1 Robotic and Communications (2) Chair: Mastaneh Moayef
12:00-13:00	Lunch				
13:00-14:00	Chair: Takao Ito (Room 302, 303) Plenary Speech PS2 Firas Basim Ismail (Universiti Tenaga Nasional (UNITEN), Malaysia)				OS25-2 Robotic and Communications (4) Chair: Mastaneh Mokayef
14:00-14:30	Coffee break				
14:30-15:45	OS5-1 Intelligent Life and Cybersecurity (5) Chair: I-Hsien Liu	OS8-1 Intelligent Systems and Applications (5) Chair: Chun-Liang Liu	OS17-1 Artificial Intelligence for Embedded Systems and Robotics (5) Chair: Hakaru Tamukoh	OS6-1 Intelligent Algorithm Application (5) Chair: Peng Wang	OS9-1 Pattern Recognition and Control I (5) Chair: Sun Haozhe
15:45-16:00	Coffee break				
16:00-17:15	OS5-2 Intelligent Life and Cybersecurity (2) Chair: I-Hsien Liu Will be ended before 16:30	OS8-2 Intelligent Systems and Applications (3) Will be ended before 16:45	OS17-2 Artificial Intelligence for Embedded Systems and Robotics (5) Chair: Hakaru Tamukoh	OS6-2 Intelligent Algorithm Application (2) Chair: Peng Wang Will be ended before 16:30	OS9-2 Pattern Recognition and Control I (2) Chair: Sun Haozhe Will be ended before 16:30

**TIME TEBLE (2/15)**

2/15(Sat.)	Room 403	Room 404	Room 405	Room 406 Remote Session
9:40-	Registration (407)			
10:00-11:15	GS4 Robotics (4) Chair: Will be ended before 11:00	OS18 Robotics in Biophilic-Designed Space Toward Co-existence of Humans, Robots, and Plants (4) Chair: Yuichiro Tanaka	GS5 Applications I (5) Chair:	OS1-1 Human-Machine Interface (5) Chair: Norrima Mokhtar
11:15-11:30	Coffee break			
11:30-12:15	GS3 Image Processing II (3) Chair:	OS16 Natural Computing (3) Chair: Marion Oswald	OS22 Navigation and Tracking (3) Chair: Chan Gook Park	OS1-2 Human-Machine Interface (3) Chair: Norrima Mokhtar
12:15-13:00	Lunch			
13:00-14:00	Chair: Eiji Hayshi (Room 302, 303) Plenary Speech PS3 Norrima Mokhtar (Universiti Malaya, Malaysia)			OS26-1 Navigating the Digital Frontier: Innovations in the Age of Industry Revolution 4.0 (5) Chair: Wei Hong Lim will be ended before 14:15
14:00-14:20	Coffee break			
14:20-15:20	Chair: Amane Takei (Room 302, 303) Plenary Speech PS1 Shinobu Yoshimura (The University of Tokyo, Japan)			OS26-2 Navigating the Digital Frontier: Innovations in the Age of Industry Revolution 4.0 (4) Chair: Wei Hong Lim
15:20-15:40	Coffee break			
15:40-16:55	GS1 Machine Learning & Autonomous Driving (4) Chair: Will be ended before 16:40	OS11-1 Industrial Artificial Intelligence Robotics (5) Chair: Eiji Hayashi	OS15 Robotic Manipulation (5) Chair: Kensuke Harada	OS26-3 Navigating the Digital Frontier: Innovations in the Age of Industry Revolution 4.0 (5) Chair: Wei Hong Lim
16:55-17:05				
17:05-18:05	GS2 Image Processing I (4) Chair:	OS11-2 Industrial Artificial Intelligence Robotics (2) Chair: Eiji Hayashi Will be ended before 17:35	OS24 New Media Interactions (4) Chair: R.P.C. Janaka Rajapakse	OS2 Computer and Information Engineering (3) Chair: Norrima Mokhtar Will be ended before 17:50
18:30-20:30	Banquet (Tokiwa Kaikan)			

**TIME TEBLE (2/16)**

<b>2/16(Sun.)</b>	<b>Room 403</b>	<b>Room 404</b>	<b>Room 405 Remote Session</b>	<b>Room 406 Remote Session</b>	<b>Room 407 Remote Session</b>
<b>9:40-</b>	Registration (407)				
<b>10:00-11:15</b>	OS12-1 Advances in Field Robotics and Their Applications (5) Chair: Shinsuke Yasukawa	OS21 Applications of Information Technology for Better Living (5) Chair: Tetsuro Katayama	OS10-1 Pattern Recognition and Control II (5) Chair Zhai Hongshuo	OS13 Research Towards the Renewable Energy and the Sustainable Development Goals (SDG's) / Part A (5) Chair Ammar A.M. Al Talib	OS27 Industrial Revolution (4) Chair: Hazry Desa will be ended before 11:00
<b>11:15-11:30</b>	Coffee Break				
<b>11:30-12:00</b>	OS12-2 Advances in Field Robotics and Their Applications (2) Chair: Shinsuke Yasukawa	OS23-1 Mathematical Informatics (2) Chair: Takao Ito	OS10-2 Pattern Recognition and Control II (2) Chair Zhai Hongshuo	OS4 Robot Images and Motion (3) Chair: Miao Zhang Will be ended before 12:15	
<b>12:00-13:00</b>	Lunch				
<b>13:00-15:00</b>	OS12-3 Advances in Field Robotics and Their Applications (2) Chair: Shinsuke Yasukawa will be ended before 13:30	OS23-2 Mathematical Informatics (8) Chair: Takao Ito	OS20 Applications (8) Chair: Kasthuri Subaramaniam	OS3 Robot Path Planning (6) Chair: Shengwei Liu will be ended before 14:30	
<b>15:00-16:00</b>	Farewell Party				