

<b>2/1(Thu.) 17:30-19:30</b>	Welcome Party (Hotel Shiragiku)
<b>2/1(Thu.) - 2/4(Sun.)</b>	ICAROB Secretariat
<b>2/4(Sun.) 15:10-15:40</b>	Farewell Party (Conference Site: 3F, Meeting Room 32)

### TIME TABLE (2/2)

<b>2/2(Fri.)</b>	<b>Conference Room</b>	<b>Meeting Room 31</b>	<b>Meeting Room 32</b>	<b>Meeting Room 33</b>	<b>Meeting Room 1</b>	<b>Meeting Room 4</b>
<b>8:40-</b>	Registration (3F)					
<b>9:00-10:15</b>			OS8-1 Intelligence Control Systems and Applications (5) Chair: Kuo-Hsien Hsia	OS19 Advanced Control (5) Chair: Yingmin Jia	OS5 Advanced Regional Engineering (4) Chair: Toru Hiraoka	OS4 Aspects of Natural Computing (3) Chair: Marion Oswald
<b>10:15-10:30</b>	Coffee break					
<b>10:30-11:00</b>	Opening Ceremony (Conference Room)					
<b>11:10-12:10</b>	Chair: Invited session IS-1, IS-2 (Conference Room) Henrik Hautop Lund, Luigi Pagliarini					
<b>12:10-13:10</b>	Lunch					
<b>13:10-14:10</b>	Chair: Plenary Speech PS1 (Conference Room) Jeffrey Johnson					
<b>14:10-14:30</b>	Coffee break					
<b>14:30-16:00</b>		OS21 Robot Competitions for Social Contribution (5) Chair: Kazuo ISHII	OS8-2 Intelligence Control Systems and Applications (5) Chair: Kuo-Hsien Hsia	OS3-1 New Challenges to Adaptive & Learning Control (6) Chair: Shin Wakitani	OS9 Theory and Implementation of Neuromimetic Systems (6) Chair: Takashi Kohno	GS4 Pattern recognition & image processing (5) Chair:
<b>16:00-16:20</b>	Coffee break					
<b>16:20-18:20</b>		Poster session (10)	OS7 Mobile Robotics (8) Chair: Evgeni Magid	OS3-2 New Challenges to Adaptive & Learning Control (5) Chair: Shin Wakitani	OS15 System and Control (10) ➔ (3+1) Chair: Huailin Zhao OS16 Recognition and Control (9) ➔ (2) Chair: Fengzhi Dai	GS2 Bipedal robot & Human-welfare Robotics (5) Chair:

**Meeting Room 31: Committee waiting room and Rest room**

## TIME TEBLE (2/3)

2/3(Sat.)	Conference Room	Meeting Room 31	Meeting Room 32	Meeting Room 33	Meeting Room 1	Meeting Room 4
8:40-	Registration					
9:00-9:45		Poster session	GS1 Robotics (3) Chair:	OS22 Navigation and Control (3) Chair: Chan Gook Park	OS10 Intelligent Robotic Manufacturing (2) Chair: Kensuke Harada	GS5 Neuroscience (2) Chair:
9:45-10:00	Coffee break					
10:00-11:00	Chair: Plenary Speech PS2 (Conference Room) Masato Nakagawa					
11:00-11:10	Coffee break					
11:10-12:10	Chair: Invited session IS-4, IS-6 (Conference Room) Pierre Parrend, Halimahtun M. Khalid					
12:10-13:10	Lunch					
13:10-14:10	Chair: Plenary Speech PS3(Conference room) Ken-ichi Tanaka					
14:10-14:30	Coffee break					
14:30-16:00		Poster session	OS18 Intelligent Control (6) Chair: Yingmin Jia	OS2 Intelligent Navigation (6) Chair: Jangmyung Lee	OS14 Advanced Technology on Sensing Technology, Devices, Application (6) Chair: Hiroki Tamura	OS20 Advances in Marine Robotics and It's Applications (5) Chair: Kazuo ISHII
16:00-16:20	Coffee break					
16:20-17:20		Poster session	OS12 Software Development Support Method (4) Chair: Tetsuro Katayama	GS3 Complexity (4) Chair:	GS7 Intelligent Control (3) Chair:	
18:00-20:00	Banquet: Hotel Shiragiku					

**Meeting Room 31: Committee waiting room and Rest room**

## TIME TABLE (2/4)

2/4(Sun.)	Meeting Room 31	Meeting Room 32	Meeting Room 33	Meeting Room 1	Meeting Room 4
8:40-	Registration				
9:00-10:15			GS6 Virtual reality (5) Chair:	OS6 Kansei Engineering and Applications (4) Chair: Tetsuo Hattori	OS11 Educational Application Making Control Engineering Approach (5) Chair: Kazuo Kawada
10:15-10:30	Coffee break				
10:30-11:10	Chair: Makoto Sakamoto Invited session IS-3 ( <b>Meeting Room 31</b> ) Takashi Yokomori				
11:10-11:30	Coffee break				
11:30-12:10	Chair: Invited session IS-5 ( <b>Meeting Room 31</b> ) Yuji Shinano				
12:10-13:10	Lunch				
13:10-14:55		OS17 Automated content generation and cognitive content generation (7) Chair: Hiroki Fukushima	OS13 Human Interface and Artificial Intelligence (5) Chair: Yasunari Yoshitomi	OS1 Computer Science and Information Processing (5) Chair: Makoto Sakamoto	
<b>Farewell Party (15:10-15:40) Meeting Room 32</b>					

**Meeting Room 31: Committee waiting room and Rest room**

## GS Fields

GS-1	Business Intelligence: Breast Cancer Diagnosis Tool by a Predictive Model	Pattern recognition
GS-2	A Multi-robot Rescuing System	Robotics
GS-3	Production simulation of autonomous decentralized MS including AGVs with different personalities of mind	Robotics
GS-4	Development of Automatic Recognition of Hazmat Marking Chart for Rescue Robot	Robotics
GS-5	Management of digital records inspired by Complex Systems with RADAR	Artificial intelligence & complexity
GS-6	Design System of Cell Type Assembly Machine with Dual Arms Robot by GA	DNA computing
GS-7	Fractional Order Sliding Mode Control Applying on the HIV Infection System	Intelligence in biological systems
GS-8	Skill-based Job Rotation Scheduling for Occupational Noise Exposure Control	Intelligent control
GS-9	Robot Manipulator Arm Inverse Kinematics Analysis by Jacobian	Bipedal robot
GS-10	Development of Passively Powered Knee Exoskeleton (PPKE) for Squat Lifting	Bipedal robot
GS-11	Interactive musical editing system to support human errors and offer personal preferences for an automatic piano -Inferring performance expression by considering change of pitch-	Facial expression analysis, music recommendation and augmented reality
GS-12	Analysis of Malaysian Facial Expressions for Designing Virtual Agents	Facial expression analysis, music recommendation and augmented reality
GS13	Development of Autonomous Robot for Laborsaving of the Forestry- Discrimination between trees and weeds using RGB-D -	Robotics
GS-14	Behavior design of a robot imitating the consciousness mechanism of living organisms~ Representation of facial expression in transition process of emotion~	Human-welfare robotics
GS-15	Study of Robot Navigation for Forest Management	Human-welfare robotics
GS-16	Development of the sense system that is combined force feedback and visual feedback -Deformable virtual objects simulation by using LEM-	Human-welfare robotics
GS-17	A four-legged robot's soft feet structural design and walking gait generated from inverse kinematics	Bipedal robot
GS-18	Development of VR system to enhance understanding process of robot mechanisms	Virtual reality
GS-19	Towards the immersive VR: measuring and assessing realism of user experience	Virtual reality
GS-20	Integrated optimization of differential evolution with grasshopper optimization algorithm	Artificial sciences
GS-21	A Training System for the Speech Controlled Environmental Control System Based on Candidate Word Discriminations	Intelligent control
GS-22	Study on Detection of Nests on Pylon from Overhead View Based on Halcon	Image processing
GS-23	Human gait recognition based on Caffe depth learning framework	Pattern recognition
GS-24	Lessons on the Reality-Gap: Iterations between Virtual and Real Robots	Virtual reality
GS-25	Improving EEG-based BCI Neural Networks for Mobile Robot Control by Bayesian Optimization	Neuroscience
GS-26	Unsupervised Image Classification Using Multi-Autoencoder and K-means++	Image processing
GS-27	Anomaly Detection of Disaster Areas from Satellite Images Using Convolutional Autoencoder and One-class SVM	Image processing
GS-28	Virtual marionette system to input target position of hand and foot of legged rescue robot	Human-welfare robotics
GS-29	Object Recognition for a Robot Using Multiple-Quantized CNN	Image processing

GS-30		
GS-31	Selective synchronization of the coupled bifurcating neurons for phase shift of background oscillation	Neuroscience
GS-32	GS-32 Efficient collective search by agents that remember failures	Complexity

Robotics	GS-3, GS-4, GS-13	<b>GS-1(3)</b>
Bipedal robot & Human-welfare robotics	GS-10, GS-14, GS-15, GS-16, GS-17	<b>GS-2(5)</b>
Complexity	GS-5, GS-6, GS-32 (久保) , GS-20-	<b>GS-3(4)</b>
Pattern recognition & Image processing	GS-22, GS-23, GS-26, GS-27, GS-29	<b>GS-4(5)</b>
Neuroscience	GS-25, GS-31	<b>GS-5(2)</b>
Virtual reality	GS-11, GS-12, GS-18, GS-19, GS-24	<b>GS-6(5)</b>
Intelligent control	GS-7, GS-8, GS-21	<b>GS-7(3)</b>

GS-1 → withdraw

GS-2 → OS15

GS-28 → no presentation

GS-9 → OS2-1