

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

TIME TABLE (2/2)

2/2(Fri.)	Conference Room	Meeting Room 31	Meeting Room 32	Meeting Room 33	Meeting Room 1	Meeting Room 4
8:40-	Registration (3F)					
9:00-10:15			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
10:15-10:30	Coffee break					
10:30-11:00	Opening Ceremony (Conference Room)					
11:10-12:10	Chair: Ju-jung Lee Invited session IS-1, IS-2 (Conference Room) Henrik Hautop Lund, Luigi Pagliarini					
12:10-13:10	Lunch					
13:10-14:10	Chair: Yingmin Jia Plenary Speech PS1 (Conference Room) Jeffrey Johnson					
14:10-14:30	Coffee break					
14:30-16:00		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 (4) Chair: Jiwu Wang
16:00-16:20	Coffee break					
16:20-18:20		GS8 Robotics II (5) Chair: Hazry Desa	OS7 Mobile Robotics (8) Chair: Evgeni Magid	OS3-2 New Challenges to Adaptive & Learning Control (5) Chair: Takuya Kinosita	OS15 System and Control (10) ➔ (3+1) Chair: Fengzhi Dai OS16 Recognition and Control (9) ➔ (2) Chair: Fengzhi Dai	GS2 Bipedal robot & Human-welfare Robotics (6) Chair: Ju-Jang Lee

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		GS9 Poster (11) Chair Evgeni Magid	GS1 Robotics I (3) Chair: Hidehiko Yamamoto	OS22 Navigation and Control (3) Chair: Chan Gook Park	OS10 Intelligent Robotic Manufacturing (2) Chair: Kensuke Harada	GS5 Neuroscience (3) Chair: Masao Kubo---
9:45-10:00	Coffee break					
10:00-11:00	Chair: Takao Ito Plenary Speech PS2 (Conference Room) Masato Nakagawa					
11:00-11:10	Coffee break					
11:10-12:10	Chair: Jangmyung Lee Invited session IS-4, IS-6 (Conference Room) Pierre Parrend, Halimahtun M. Khalid					
12:10-13:10	Lunch					
13:10-14:10	Chair: Marion Oswald 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 (5) Chair:	GS7 Intelligent Control (3) Chair: Kunikazu Kobayashi	
18:30-20:30	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 (Meeting Room 31) Takashi Yokomori				
11:10-11:30	Coffee break				
11:30-12:10	Chair: Takao Ito Invited session IS-5 (Meeting Room 31) 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	
Farewell Party (15:10-15:40) Meeting Room 32					
Meeting Room 31: Committee waiting room and Rest room					
GS10 Others (5) (no presentation, only papers)			GS-002, GS-003, GS-004, GS-28		GS-10(4)

GS Fields

GS-1	Business Intelligence: Breast Cancer Diagnosis Tool by a Predictive Model ¹	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
GS-13	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	Efficient collective search by agents that remember failures	Complexity
GS-33	Powered Ankle Exoskeletons: Existent Designs and Control Systems	Human-welfare robotics
GS-34	The analysis of band structures of photonic crystals	Complexity
GS-35	A Data Estimation Technique for Incomplete Telemetry Data Based on a Genetic Algorithm with Data' Statistical Properties	Complexity
GS-36	Spherical Mobile Robot Driven by 2 Orthogonal Omnidirectional Wheels	Robotics
GS-01	Coordinated behaviour with a Pepper Humanoid robot to estimate the distance of other robot using Inverse Perspective Mapping	Robotics
GS-08	Control Techniques of Quadrotor UAVs: A Concise Study	Robotics
GS-09	Design and Development of Three Arms Transmission Line Inspection Robot	Robotics (Poster)
GS-010	A GIS Based River Water Level & Flood Prediction System	Complexity (Video Presentation or Skype)
GS-001	Review on computational techniques in solving aircraft landing problem	Robotics
GS-002	A review on fundamental advancements of black hole algorithm	Complexity
GS-003	A survey on applications of black hole algorithm	Complexity
GS-004	Black hole white hole algorithm with local search	Complexity
GS-28	Virtual marionette system to input target position of hand and foot of legged rescue robot	Robotics

Robotics I	GS-3, GS-4, GS-13	GS-1(3)
Bipedal robot & Human-welfare robotics	GS-10, GS-14, GS-15, GS-16, GS-17, GS-33	GS-2(6)
Complexity	GS-5, GS-20, GS-32, GS-34, GS-35	GS-3(5)
Pattern recognition & Image processing	GS-22, GS-23, GS-26, GS-27, GS-29	GS-4(5)
Neuroscience	GS-25, GS-31	GS-5(2)
Virtual reality	GS-11, GS-12, GS-18, GS-19, GS-24	GS-6(5)
Intelligent control	GS-7, GS-8, GS-21	GS-7(3)
Robotics II	GS-6, , GS-36 , GS-01, GS-08	GS-8(4)
Poster	P1, P2, P3, P4, P5, P6, P7, P8, P9, P10, P11	GS-9(11)
Others	GS-002, GS-003, GS-004, GS-28	GS-10(4)

GS-1→withdraw

GS-2→OS15

GS-002→no oral presentation

GS-003→no oral presentation

GS-004→no oral presentation

GS-28 →no oral presentation

GS-9→OS2-1

GS-29→withdraw