The 2020 International Conference on Artificial Life and Robotics (ICAROB2020), B-Con Plaza, Jan. 13-16, Beppu, Oita, Japan, 2020

GENERAL SESSION TOPICS

GS1 Neural Networks (4)	GS2 Control Techniques (5)
GS3 Vision & Image Processing (4)	GS4 Robotics 1 (3)
GS5 Robotics 2 (4)	GS6 Application Techniques (8)
GS7 Poster (4)	

ORGANIZED SESSION TOPICS

OS1 Machine vision and Mobile robot (4)	OS2 Advanced Control (4)
OS3 Intelligent Control (4)	OS4 Intelligent Life and Systems (7)
OS5 Artificial Life and Robotics (7)	OS6 Theory and Implementation of Neuromimetic Systems (4)
OS7 Robotic Manipulation (4)	OS8 Advanced Research of Engineering and Management (4)
OS9 Recognition and Control (19)	OS10 AI Applications (8)
OS11 System and Control (15)	OS12 Advances in Theory and Education on Control (4)
OS13 Natural Computing (5)	OS14 Software Development Support Method (5)
OS15 Recognition and System (12)	OS16 Media Information Processing and Artificial Intelligence (4)
OS17 Machine Learning Technologies for Human Understanding (2)	OS18 Service Robotics (7)
OS19 Advanced Information Processing Applications (5)	OS20 Artificial Intelligence for Embedded Systems and Robotics (5)
OS21 Mathematical Informatics (4)	OS22 Robot Competitions for Social Contribution(5)
OS23 Advances in Field Robotics and Their Applications (6)	OS24 Robot Intelligence and Factory Automation (6)

The 2020 International Conference on Artificial Life and Robotics (ICAROB2020), B-Con Plaza, Jan. 13-16, Beppu, Oita, Japan, 2020					
1/13(Mon.) 17:30-19:30	Welcome Party (Beppu Kamenoi Hotel)				
1/14(Tue.) — 1/16(Thu.)	.) ICAROB Secretariat				
1/16(Thu.)	Farewell Party (Conference Site: 3F, Meeting Room 31)				

TIME TABLE (1/14)

1/14(Tue.)	Conference Room	Meeting Room 31	Meeting Room 32	Meeting Room 33	Meeting Room 1	Meeting Room 4
8:40-	Registration (3F)					
9:00-10:00			OS2 Advanced Control (4) Chair: Yingmin Jia	OS6 Theory and Implementation of Neuromimetic Systems (4) Chair: Takashi Kohno	OS1 Machine vision and Mobile robot (4) Chair: Wei Liu	OS12 Advances in Theory and Education on Control (4) Chair: Takao Sato
10:00-10:20			Cof	fee break		
10:20-10:50			Opening Ceremo	ny (Conference Room)		
11:00-12:00	Chair : Plenary Speech PS-1(Conference room) Takashi Kohno					
12:00-13:00	Lunch					
13:00-14:00	Chair: Plenary Speech PS-2(Conference Room) Eiji Hayashi					
14:00-14:20	Coffee break					
14:20-15:20	Chair: (H. H. Lund), Chair: (L. Pagliarini) Invited Speech IS-2, IS-3(Conference Room) Henrik Hautop Lund, Luigi Pagliarini					
15:20-15:40	Coffee break					
15:40-17:40		GS6 Application Techniques (8) Chair: Hazry Desa	OS4 Intelligent Life and Systems (7) Chair: Kuo-Hsien Hsia	OS10 AI Applications (8) Chair: Mohamed Rizon	OS13 Natural Computing (5) Chair: Marion Oswald	

Meeting Room 31: Committee waiting room and Rest room

The 2020 International Conference on Artificial Life and Robotics (ICAROB2020), B-Con Plaza, Jan. 13-16, Beppu, Oita, Japan, 2020

TIME TEBLE (1/15)

1/15(Wed.)	Conference Room	Meeting Room 31	Meeting Room 32	Meeting Room 33	Meeting Room 1	Meeting Room 4	
8:40-	Registration						
9:00-10:00			OS7 Robotic Manipulation (4) Chair: Kensuke Harada	GS7 Poster (4) Chair:	OS18-1 Service Robotics (4) Chair: Evgeni Magid	GS4 Robotics 1 (3) Chair:	
10:00-10:15			Cof	fee break			
10:15-11:15			OS3 Intelligent Control (4) Chair: Yingmin Jia	OS8 Advanced Research of Engineering and Management (4) Chair: Takao Ito	OS18-2 Service Robotics (3)	GS5 Robotics 2 (4) Chair:	
11:15-11:30			Cof	fee break		1	
11:30-12:30	Chair: Plenary Speech PS-4 (Conference Room) Naoki Suganuma						
12:30-13:30	Lunch						
13:30-14:30	Chair: Plenary Speech PS-3 (Conference Room) Jeffrey Johnson						
14:30-14:45	Coffee break						
14:45-16:00			OS5-1 Artificial Life and Robotics (5) Chair: Chung-Wen Hung	OS16 Media Information Processing and Artificial Intelligence (4) Chair: Yasunari Yoshitomi	GS1 Neural Networks (4) Chair:	OS20 Artificial Intelligence for Embedded Systems and Robotics (5) Chair: Hakaru Tamukoh	
16:00-16:15	Coffee break						
16:15-17:45			OS5-2 Artificial Life and Robotics (2) Chair: Chung-Wen Hung	OS19 Advanced Information Processing Applications (5) Chair: Toru Hiraoka	OS24 Robot Intelligence and Factory Automation (6) Chair: Eiji Hayashi	GS2 Control Techniques (5) Chair:	
18:30-20:30		·	Banquet: Be	opu Kamenoi Hotel	· · · ·		

Meeting Room 31: Committee waiting room and Rest room

Meeting Room 31	Meeting Room 32	Meeting Room 33	Meeting Room 1	Meeting Room 4		
Registration						
OS15 Recognition and System (12) Chair: Xiaoyan Chen	OS14 Software Development Support Method (5) Chair: Tetsuro Katayama	GS3 Vision & Image Processing (4) Chair:				
Coffee break						
Chair: Invited speech IS-1(Meeting Room 31) Jangmyung Lee						
Lunch						
OS11 System and Control (15) Chair: Yizhun Peng	OS22 Robot Competitions for Social Contribution (5) Chair: Yasunori Takemura	OS17 Machine Learning Technologies for Human Understanding (2) Chair: Masao Kubo				
Coffee Break						
OS9 Recognition and Control (19) Chair: Fengzhi Dai	OS 23 Advances in Field Robotics and Their Applications (6) Keisuke Watanabe	OS21 Mathematical Informatics (4) Chair: Makoto Sakamoto				
	OS15 Recognition and System (12) Chair: Xiaoyan Chen OS11 System and Control (15) Chair: Yizhun Peng OS9 Recognition and Control (19)	OS15 Recognition and System (12) Chair: Xiaoyan Chen OS14 Software Development Support Method (5) Chair: Tetsuro Katayama Inv OS11 System and Control (15) OS22 Robot Competitions for Social Contribution (5) Chair: Yizhun Peng OS9 Recognition and Control (19) OS 23 Advances in Field Robotics and Their Applications (6)	RegistrationOS15 Recognition and System (12) Chair: Xiaoyan ChenOS14 Software Development Support Method (5) Chair: Tetsuro KatayamaGS3 Vision & Image Processing (4) Chair:Coffee breakColar: Chair:Coffee breakCoffee breakChair: Invited speech IS-1(Meeting Room Jangmyung Lee LunchOS11 System and Control (15) Chair: Yizhun PengOS22 Robot Competitions for Social Contribution (5) Chair: Yasunori TakemuraOS17 Machine Learning Technologies for Human Understanding (2) Chair: Masao KuboOS9 Recognition and Control (19) Chair: Fengzhi DaiOS 23 Advances in Field Robotics and Their Applications (6)OS21 Mathematical Informatics (4) Chair: Makoto Sakamoto	OS15 Recognition and System (12) Chair: Xiaoyan Chen OS14 Software Development Support Method (5) Chair: Tetsuro Katayama GS3 Vision & Image Processing (4) Chair: Coffee break Coffee break Coffee break Chair: Invited speech IS-1(Meeting Room 31) Jangmyung Lee Lunch OS11 System and Control (15) Chair: Yizhun Peng OS22 Robot Competitions for Social Contribution (5) Chair: Yasunori Takemura OS17 Machine Learning Technologies for Human Understanding (2) Chair: Masao Kubo OS9 Recognition and Control (19) Chair: Fengzhi Dai OS 23 Advances in Field Robotics and Their Applications (6) OS21 Mathematical Informatics (4) Chair: Makoto Sakamoto		

TIME TABLE (1/16)

Meeting Room 31: Committee waiting room and Rest room