

Time Table (January 25, 2023)

		3F			B1		
		Room A	Room B	Room C	Room D	Room E	Room F
1/24 15:00 – 17:00		Registration (3F Registration Desk)					
08:00		Registration (3F Registration Desk)					
09:00 – 10:30	OS22 SWARM: Motion Analysis and Control of Advanced Robotic Systems Chair: F. Asano	GS5 Artificial life Chair: M. Oka	GS9 Bio-mimetics & Brain science (will start at 10:00) Chair: K. Ikeda	GS11 Control techniques Chair: Y. Taira	GS16 Identification and Estimation Chair: H.-H. Lee	GS30 Robotic Mechanism Chair: X. Xu	
		Break					
Opening Ceremony (1F Room G)							
Plenary Speech (1F Room G) From rigid to soft to biological robots. Prof. Josh Bongard, The University of Vermont, USA Chair: Takashi Ikegami							
Break							
11:50 – 13:00		Break					
13:00 – 14:30	OS23 SWARM: Swarm and Bio-inspired Systems Chair: M. Yamamoto	OS3 AROB: Biomimetic Machines and Robots Chair: K. Watanabe	OS15 ISBC: Complex biomolecules and hazards Chair: T. Ohira	OS7 AROB: Measurement and control of mobile vehicle Chair: S. Sagara	GS8 Biomedical imaging & Medical informatics (will end at 14:15) Chair: H. Tanaka	GS12 Data mining Chair: N. Bu	
			Break				
14:30 – 14:45		GS2 Artificial intelligence 1 Chair: T. Srichanthamit		GS10 Cognitive Science Chair: F. Wörgötter	GS15 Human-machine interaction and collaboration (will start at 14:30) Chair: R. Saga	GS22 Model estimation Chair: R. R. P. Tan	
14:45 – 16:30	Break						
16:30 – 16:45	Break						
16:45 – 17:45	GS1 Agent-based modeling Chair: N. P. Martono	OS4 AROB: Computational intelligence and cognitive science for human biosignals and human well-being Chair: T. Hiroyasu	OS6 AROB: Intuitive Human-System Interaction Chair: M. Yokota	GS6 Bioinformatics Chair: K. Naitoh	GS14 Evolutionary computations (Genetic algorithm) Chair: T. Nakashima	GS17 Intelligent control Chair: M.C. Lee	

OS: Organized Session GS: General Session

Time Table (January 26, 2023)

		3F			B1		
		Room A	Room B	Room C	Room D	Room E	Room F
08:00		Registration (3F Registration Desk)					
09:00 – 10:45		OS21 SWARM: Individuals and collectives in (artificial) living systems Chair: T. Ikegami	GS21 Mobile robots Chair: M.K. Habib	OS18 ISBC: Quantum leaps after IIAS Complexity workshop Chair: N. Ito	GS3 Artificial intelligence 2 Chair: S. Ishikawa	OS12 AROB: System Sensing and Its Applications 1 Chair: H. Asano	GS20 Manipulator Chair: F. Nagata
10:45 – 11:00		Break					
11:00 – 11:50		Plenary Speech (1F Room G) Analysis and Synthesis of Heterogeneous Multi-agent System via Blended Dynamics Approach Prof. Hyungbo Shim, Seoul National University, Korea Chair: Toru Namerikawa					
11:50 – 13:00		Break					
13:00 – 14:45		OS20 SWARM: Fusion of biological and engineering approaches for swarm design (will start at 12:35) Chair: S. Azuma	OS8 AROB: Recent Natural Language Processing Models and Applications Invited Talk: 13:00–13:30 Prof. Kiyota Hashimoto Chair: H. Yanagimoto	OS16 ISBC: Complex information Chair: H. Miyachi	GS4 Artificial intelligence 3 Chair: J.-S. Shieh	OS13 AROB: System Sensing and Its Applications 2 Chair: S. Matsuno	GS18 Machine learning 1 GS19 Machine learning 2 Chair: N. Shigei S. Kato
14:45 – 15:00		Break					
15:00 – 15:50		Plenary Speech (1F Room G) Human-Agent Interaction as Augmentation of Social Intelligence Dr. Hirota Osawa, Keio University, Japan Chair: Reiji Suzuki					
15:50 – 16:05		Break					
16:05 – 17:35		OS19 SWARM: Behavioral measurement and modeling technology to consider individual of cognitive functions of organisms Chair: R. Fujiwara	OS24 SWARM: Snake Robot Chair: T. Kamegawa	OS11 AROB: Robotics, Bioinspiration, and Intelligence Chair: M.K. Habib	GS23 Motion planning and navigation Chair: D. Kurabayashi	OS14 AROB: System Sensing and Its Applications 3 Chair: K. Oiwa	
18:30 – 20:30		Banquet (at Beppu Kamenoi Hotel)					
		OS: Organized Session		GS: General Session			

Time Table (January 27, 2023)

3F		B1				
	Room A	Room B	Room C	Room D	Room E	Room F
	Registration (3F Registration Desk)					
08:00	OS5 AROB: Human-Centered Robotics		OS17 ISBC: Complex processes	GS25 Neural networks 1		
09:00 – 10:30	Invited Talks 9:00-9:30 Prof. Zonghe Chua 9:30-10:00 Dr. Mohan Rajesh Elara		OS1 AROB: Bio-inspired Theory and Applications (1)	GS28 Robot vision and image processing 1		
	Chair: S. Nisar		Chair: K. Yamamori	Chair: R. Yamada		
10:30 – 10:45			Break		Break	
10:45 – 12:00			OS2 AROB: Bio-inspired Theory and Applications (2)	GS26 Neural networks 2		
			Chair: K. Yamamori	Chair: S.-K. Kim		
12:00 – 13:00	Break					
13:00 – 14:15	GS32 Sensor and multi-sensor data fusion	OS9 AROB: Robot control and HCI	GS34 Swarm robotics	GS24 Multi-agent systems		GS27 Neurocomputing technologies and its application for hardware
	Chair: H. Hashimoto	Chair: M. Yokomichi	Chair: K. Ito	GS13 Evolution of cooperation		Chair: K. Saito
14:15 – 14:30	Break		Chair: T. Ohdaira		Break	
14:30 – 15:45		GS35 Tele-operation	GS7 Bio-inspired robotics	GS33 Swarm robot		
		Chair: S. Sagara	Chair: T. Hayakawa	Chair: K. Watanabe		
				Chair: B. Haghighat		

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