

# Program at a Glance

## December 6 (Mon.) Opening Remarks, Organized Sessions, Plenary Talks

<Online>

Time	Plenary hall	
9:00~9:20	<b>Opening Remarks</b> <i>Prof. Toshio Fukuda, Meijo University, Japan (Honorary Chair)</i> <i>Prof. Fumihito Arai, The University of Tokyo, Japan (General Co-Chair)</i> <i>Prof. Koichi Suzumori, Tokyo Institute of Technology (General Co-Chair)</i> <i>Prof. Jun Ota, The University of Tokyo, Japan (General Co-Chair)</i>	
9:20~10:05	<b>Plenary Talk 1</b> <i>"A Mechanism-Based Approach to Rehabilitation Engineering for Safe and Independent Mobility in Older Adults"</i> <i>Assoc. Prof. Jason R. Franz, NC State University and University of North Carolina at Chapel Hill, USA</i>	
10:05~10:20	<b>Break</b>	
	<b>Room1</b>	<b>Room2</b>
10:20~12:05	<b>Session MA1-1: (Organized Session 1-1):</b> <b>Advanced Micro-Nano Systems for Biomedical Applications</b>	<b>Session MA2-1: (Organized Session 2+Regular session):</b> <b>Cognitive Robotics+Regular session</b>
12:05~13:00	<b>Lunch</b>	
	<b>Plenary hall</b>	
13:00~13:45	<b>Plenary Talk 2</b> <i>"Motor Synergy Emergence in Redundancy through Deep Reinforcement Learning"</i> <i>Prof. Mitsuhiro Hayashibe, Tohoku University, Japan</i>	
13:45~14:00	<b>Break</b>	
	<b>Room1</b>	<b>Room2</b>
14:00~15:15	<b>Session MP1-1: (Organized Session 1-2):</b> <b>Advanced Micro-Nano Systems for Biomedical Applications</b>	<b>Session MP2-1: (Organized Session 4-1):</b> <b>Hyper-Adaptability</b>
15:15~15:30	<b>Break</b>	
	<b>Room1</b>	<b>Room2</b>
15:30~17:30	<b>Session MP1-2: (Organized Session 3):</b> <b>Functional Interfaces and Hydro-Electrochemical Mechatronics</b>	<b>Session MP2-2: (Organized Session 4-2):</b> <b>Hyper-Adaptability</b>

## December 7 (Tue.) Organized Sessions, Plenary Talks

<Online>

Time	Plenary hall	
9:00~9:45	<b>Plenary Talk 3</b> <i>"Shape-shifting soft robots that adapt to changing tasks and environments"</i> <i>Assoc. Prof. Rebecca Kramer-Bottiglio, Yale University, USA</i>	
9:45~10:00	<b>Break</b>	
	<b>Room1</b>	<b>Room2</b>
10:00~11:30	<b>Session TA1-1: (Organized Session 9-1):</b> <b>Science of Soft Robots</b>	<b>Session TA2-1: (Organized Session 8):</b> <b>New Materials and Processing for Micro/nano Devices</b>
11:30~13:00	<b>Lunch</b>	
	<b>Plenary hall</b>	
13:00~13:45	<b>Plenary Talk 4</b> <i>"Hydrogel surface engineering for soft robotics"</i> <i>Assoc. Prof. Aya M Akimoto, The University of Tokyo, Japan</i>	
13:45~14:00	<b>Break</b>	
	<b>Room1</b>	<b>Room2</b>
14:00~15:30	<b>Session TP1-1: (Organized Session 9-2):</b> <b>Science of Soft Robots</b>	<b>Session TP2-1: (Organized Session 7-1):</b> <b>Micro/nano Technologies for Spatiotemporal Cell Analysis</b>
15:15~15:30	<b>Break</b>	
	<b>Room1</b>	<b>Room2</b>
15:45~17:15	<b>Session TP1-2: (Organized Session 9-3):</b> <b>Science of Soft Robots</b>	<b>Session TP2-2: (Organized Session 7-2):</b> <b>Micro/nano Technologies for Spatiotemporal Cell Analysis</b>
17:15~17:30	<b>Break</b>	
17:30~18:15	<b>Plenary Talk 5</b> <i>"Ultrasound-engineered micro-tumors for immunotherapy and chemotherapy screening"</i> <i>Prof. Martin Viklund, KTH Royal Institute of Technology, Sweden</i>	

**December 8 (Wed.) Organized Sessions, Plenary Talks, Award Ceremony, Closing**

<Online>

Time	Room1	Room2
9:00~10:45	Session WA1-1: (Organized Session 6-1): Micro/Nano Functional Devices for in Vivo/vitro Applications	Session WA2-1: (Organized Session 10-1): Human Assistive Technology
10:45~11:00	Break	
	Room1	Room2
11:00~12:00	Session TP1-1: (Organized Session 6-2): Micro/Nano Functional Devices for in Vivo/vitro Applications	Session TP2-1: (Organized Session 10-2): Human Assistive Technology
12:00~12:15	Break	
12:15~12:45	<b>Plenary Talk 6</b> <i>"Elastin-inspired protein nanofibers and hydrogels with tailored functionalities"</i> <i>Prof. Ayae Sugawara-Narutaki, Nagoya University, Japan</i>	

Time	Plenary hall
18:00~	Award Ceremony and Closing