

Timetable

On-site check-in is available at Toyoda Auditorium Complex during the following hours.
 8/28 (11:00-17:00) , 8/29 (8:00-17:30) , 8/30 (8:30-17:30) , 8/31 (8:30-17:00)

Sunday 28 August

Start	End	Okuma Machine Tool Engineering Building (ZOOM room Okuma)
13:00	16:00	<p style="text-align: center;">Tutorial session</p> <p style="text-align: center;"><u>Frontiers of Digital Twin in the Production and Processing Field</u></p> <p style="text-align: center;">Chairman: Prof. Hiroshi Igarashi (Tokyo Denki University)</p> <p style="text-align: center;">13:00-13:05</p> <p style="text-align: center;">Opening remarks</p> <p style="text-align: center;">Prof. Akihiro Matsumoto (Toyo University)</p> <p style="text-align: center;">13:05-15:55</p> <p style="text-align: center;">Complementary Hybrid CAE with AI in Machining Process Simulation</p> <p style="text-align: center;">Prof. Takashi Matsumura (Tokyo Denki University)</p> <p style="text-align: center;">14:05-14:55</p> <p style="text-align: center;">Okuma's Smart Factory for Mass Customization</p> <p style="text-align: center;">Mr. Makoto Kajino (Okuma Corporation, Solutions & Systems Engineering department, Assistant General Manager)</p> <p style="text-align: center;">15:10-16:00</p> <p style="text-align: center;">Introduction of research of the Okuma Machine Tool Engineering Endowed Lab and Manufacturing Engineering Lab</p> <p style="text-align: center;">Prof. Takehiro Hayasaka (Nagoya University)</p>

Monday 29 August

Start	End	Room A Toyoda Auditorium Hall (Zoom room A)	Room B Toyoda Auditorium Symposion (Zoom room B)	Room C Toyoda Auditorium Meeting room1 (Zoom room C)	Room D Noyori Conference Hall (Zoom room D)
8:40	8:50	Opening ceremony			
8:50	9:30	Plenary Talk "Journey to One Million TPI" Mr. Andrew Hanlon (Vice President of World Wide Servo/Mecha/STW Development, Western Digital)			
9:30	10:00	Coffe break			
10:00	11:00	Robotics 1	Micro/Nano System Science and Technology 1	Micro/Nano Mechanical Systems 1	Science and Technology of Flexible Media Handling and Printable/Wearable Devices 1
11:00	11:30	Coffe break			
11:30	12:30	Robotics 2	Micro/Nano System Science and Technology 2	Micro/Nano Mechanical Systems 2	Science and Technology of Flexible Media Handling and Printable/Wearable Devices 2
12:30	14:00	Lunch			
14:00	15:30	Robotics 3	Micro/Nano System Science and Technology 3	Micro/Nano Mechanical Systems 3	Science and Technology of Flexible Media Handling and Printable/Wearable Devices 3
15:30	16:00	Coffe break			
16:00	17:30	Robotics 4	Micro/Nano System Science and Technology 4	Advanced Simulation in Science and Engineering 1	Science and Technology of Flexible Media Handling and Printable/Wearable Devices 4

Tuesday 30 August

Start	End	Room A Toyoda Auditorium Hall (Zoom room A)	Room B Toyoda Auditorium Symposion (Zoom room B)	Room C Toyoda Auditorium Meeting room1 (Zoom room C)	Room D Noyori Conference Hall (Zoom room D)
9:00	10:30	Robotics 5	Micro/Nano System Science and Technology 5	Micro/Nano Mechanical Systems 4	Biomedical Mechatronic Systems 1
10:30	11:00	Coffe break			
11:00	12:30	Machine Learning and Intelligent Mechanical Systems 1	Mechatoronics and Tribology of Information Storage Systems 1	Micro/Nano Mechanical Systems 5	Biomedical Mechatronic Systems 2
12:30	13:30	Lunch			

Start	End	Room A Toyoda Auditorium Hall (ZOOM room A)
13:30	17:35	<p>Open Forum</p> <p><u>New fusion of Mechanical Engineering and Informatics</u></p> <p>13:30-14:10</p> <p>"New trends about Smart Manufacturing System in Society 5.0 Era" Prof. Toshiya Kaihara (Kobe University)</p> <p>14:10-14:50</p> <p>"Robots will become social infrastructure" Mr. Akihiro Nishimura (ZMP Inc. Director of the Board)</p> <p>15:05-15:45</p> <p>"Inverse problem of wave scattering and microwave mammography" Prof. Kenjiro Kimura (Kobe University)</p> <p>15:45-16:25</p> <p>"Biohybrid Robotics" Prof. Shoji Takeuchi (The University of Tokyo)</p> <p>16:40-17:20</p> <p>"Art and Science" Prof. Daito Manabe (Media artist, specially invited professor at Keio University)</p> <p>17:20-17:35</p> <p>Discussion Facilitator: Prof. Ken Masamune (Tokyo Women's Medical University)</p>
19:00	21:00	Banquet

Wednesday 31 August

Start	End	Room A Toyoda Auditorium Hall (Zoom room A)	Room B Toyoda Auditorium Symposion (Zoom room B)	Room C Toyoda Auditorium Meeting room1 (Zoom room C)	Room D Noyori Conference Hall (Zoom room D)
9:00	10:30	Machine Learning and Intelligent Mechanical Systems 2	Mechatoronics and Tribology of Information Storage Systems 2	Mechanical Systems of Consumer Electronics and Optical Imaging Devices	Biomedical Mechatronic Systems 3
10:30	11:00	Coffe break			
11:00	12:30	Machine Learning and Intelligent Mechanical Systems 3	Mechatoronics and Tribology of Information Storage Systems 3	Advanced Simulation in Science and Engineering 2	IoT and Smart Maintenance 1
12:30	14:00	Lunch			
14:00	15:30	Machine Learning and Intelligent Mechanical Systems 4	Mechatoronics and Tribology of Information Storage Systems 4	Advanced Simulation in Science and Engineering 3	IoT and Smart Maintenance 2
15:30	16:00	Coffe break			
16:00	17:00	Machine Learning and Intelligent Mechanical Systems 5	Mechatoronics and Tribology of Information Storage Systems 5	Advanced Simulation in Science and Engineering 4	IoT and Smart Maintenance 3