Mechanisms, Actuators and Control for Robotics

July 23-27, 2018 Tokyo / Yamanashi, Japan

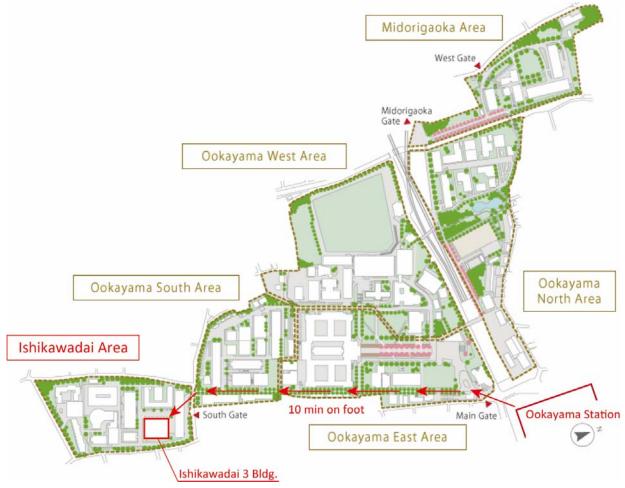
Program

Day 1: Monday, July 23rd, Tokyo Institute of Technology (Mechanisms and applications)

Room 304, Ishikawadai 3rd building, Tokyo Institute of Technology https://www.titech.ac.jp/english/maps/

8:30	Registration
9:00 - 9:15	Opening Ceremony
9:15 -10:45	Tips of Creative Mechanical Design for Practical Robots
	Dr. Shigeo Hirose, Representative Director CEO, CTO, HiBot Corporation, Japan
	Professor Emeritus Tokyo Institute of Technology
10:45-11:00	(break)
11:00-12:30	Tolerance Management for Linkages
	Prof. Mathias Huesing, RWTH Aachen University, Germany
12:30-14:00	(Lunch)
14:00-15:00	Gravity Compensation for Robotics
	Prof. Chin-Hsing Kuo, National Taiwan University of Science and Technology, Taiwan
15:00-15:15	(break)
15:15-16:15	Kinematic Design of Parallel Robots
	Prof. Yukio Takeda, Tokyo Institute of Technology, Japan
16:15-17:30	Lab Tour
18:00-20:00	Welcome Party

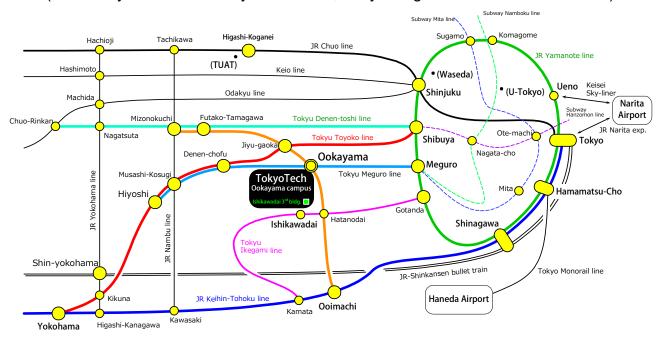
<Map and Directions: Tokyo Tech>



Venue:

Conference Room 304, 3rd Floor, Ishikawadai 3 Bldg.,
Tokyo Institute of Technology (Ohokayama Campus)
2-12-1 Ookayama, Meguro-ku, Tokyo 152-8552

(10 min. by walk from Ookayama Station, Tokyu Meguro-line and Ohimachi-line)



Access to Tokyo Tech Ookayama campus

Day 2: Tuesday July 24th, Waseda University (Humanoids and applications)

Room 121, Bldg. No. 120-5, Waseda Campus, Waseda University

9:30-10:30 Introduction to Humanoid Robotics

Prof. Atsuo Takanishi, Waseda University, Japan

10:30-10:45 (break)

10:45-11:45 Medical Humanoid Robotics -Patient Simulators for Medical

Education/Training-

Prof. Hiroyuki Ishii, Waseda University, Japan

11:45-13:00 (lunch)

13:00-14:00 Biologically-Inspired Design of Musical Humanoid Robots and Its

Applications to Human-Robot Interaction

Prof. Jorge Solis, Karlstad University, Sweden

14:00-14:15 (break)

14:15-15:15 Application of Humanoid Robotics to Disaster Response

Prof. Kenji Hashimoto, Meiji University, Japan

15:30-18:00 Lab Tour

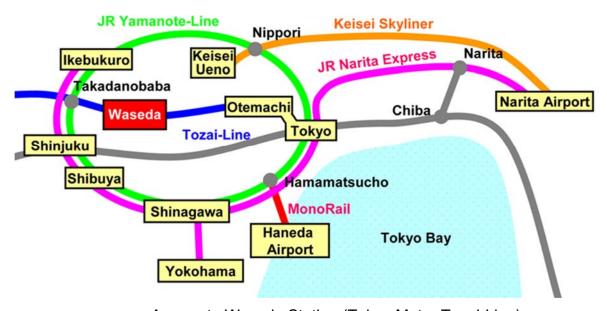
<Map and Directions: Waseda University >



Attention: The entrance becomes very hard to find because No. 120 Building is under construction. Please be careful.

Venue:

Room 121, Bldg. No. 120-5, Waseda University (Waseda Campus) 530 Wasedatsurumaki-cho, Shinjuku-ku, Tokyo 162-0041 (6 min. by walk from Waseda Station, Tokyo Metro Tozai-line)



Access to Waseda Station (Tokyo Metro Tozai-Line)

Day 3: Wednesday July 25th, Tokyo University of Agriculture and Technology (Actuators and Applications)

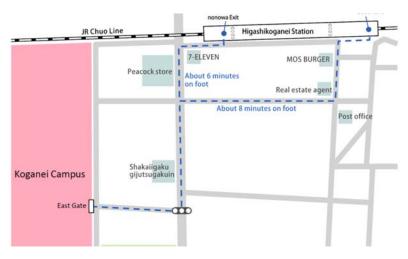
Koganei Campus Building 6 room 501

10:00-11:30	Electro-conjugate Fluid Actuators for Soft Robot Applications
	Prof. Kenjiro Takemura, Keio University, Japan
11:30-13:00	(Lunch)
13:00-14:30	Film-based Large Electrostatic Actuators for New Mechatronic Applications
	Prof. Akio Yamamoto, University of Tokyo, Japan
14:45-16:15	Mechatronics for controlling mobile robots and automobiles
	Prof. Masayoshi Wada, TUAT, Japan
16:30-18:00	Lab Tour (Wada – Venture - Toyama)

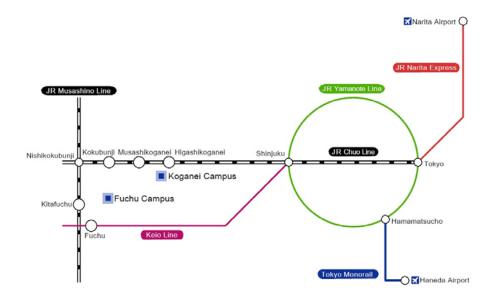
<Map and Directions: TUAT>



TUAT Koganei campus map



Access to Koganei Campus East gate from the JR station Higashi Koganei



Train access to TUAT Koganei Campus

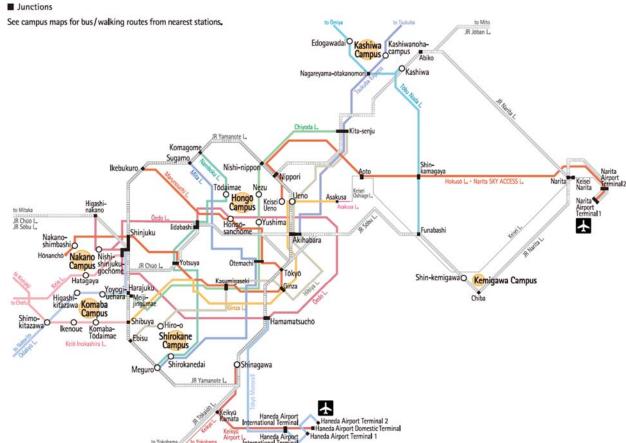
Day 4: Thursday, July 26th, University of Tokyo (Control and applications)

Nakajima Hall

	Пакајіна Пан
9:00-10:00	Kinematics and Dynamics (theory and algorithm)
	Prof. Yoshihiko Nakamura, University of Tokyo, and
	Dr. Ko Ayusawa, AIST, Japan
10:00-10:15	(break)
10:15-11:15	Modelling (interpretations of block diagrams)
	Prof. Ken Sasaki, University of Tokyo, Japan
11:15-11:30	(break)
11:30-13:00	Model and Identification (identification theory and practice)
	Prof. Gentiane Venture, TUAT, Japan
13:00-14:00	(lunch)
14:00-15:30	Feedback Control (nonlinear control and locomotion)
	Dr. Christian Ott, DLR, Germany
15:30-15:45	(break)
15:45-17:15	Computation (software, simulation and realtime)
	Prof. Tomomichi Sugihara, Osaka University, Japan
17:15-18:30	Lab Tour

Access Map

- O Nearest Station (Walk or bus)





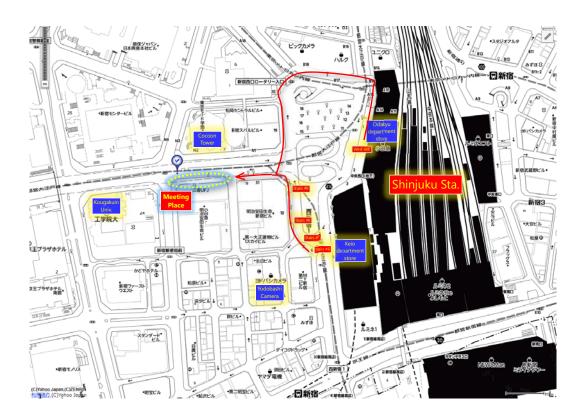
Day 5: Friday, July 27th, FANUC CORPORATION (Factory tour and lectures)

7:20	Departure from the meeting place in west side of Shinjuku Station, Tokyo *Meeting place is shown in the map below	
7:20 – 9:50	Trip with a charter bus	
(8:45 – 9:00)	Intermediate break at Dango-Zaka rest area	
10:00 - 10:25	Welcome Talk and Introduction of FANUC	
10:30 – 12:00	Academic Lecture Recent Robotic Research Activities at IGMR, RWTH Aachen University Prof. Burkhard Corves, RWTH Aachen University, Germany	
12:00 – 12:45	(lunch)	
12:45 – 13:30	Industrial Lecture from FANUC	
13:30 – 16:15	Factory Tour in FANUC	
16:15 – 16:45	Closing Ceremony	
16:45	Departure from FANUC to Shinjuku	
(17:35 – 17:50) Intermediate break at Dango-Zaka rest area		
19:20 (approx.)	Arrival at Shinjuku Station	

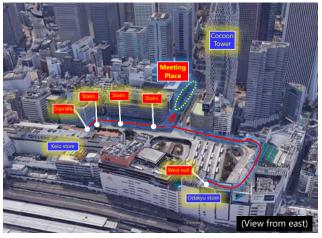
[Remarks on the factory tour]

- 1. It is strictly prohibited to take photos, movies and recordings in the buildings of FANUC.
- 2. Do not enter any place other than the permitted places.
- 3. For your safety, be sure to act in accordance with the instructions of FANUC employees.

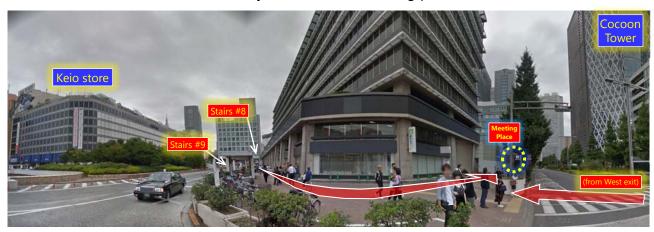
Meeting place: 1-8-1 Nishi-Shinjuku, Shinjuku-ku, Tokyo (located at west side of Shinjuku Station.)







Birds' eye view of the meeting point



Close-point view of the meeting place