Program at a Glance

November 9

13:00-13:20	Opening Session
13:20-14:45	Session A
14:45-16:15	Poster Session 1 and Coffee Break
16:25-18:05	Academic-Industrial Collaboration Session
18:15-20:00	Networking

November 10

10:00-11:25	Session B
11:25-13:15	Poster Session 2 and Lunch (Light meals will be served.)
13:25-14:50	Session C
14:50-15:10	Coffee Break
15:10-16:35	Session D
16:35-16:50	Closing Session

Program

November 9

Opening Se	Chair: Fumio Koyama, Tokyo Institute of T	echnology
13:00-13:05	Opening Remarks: Yoshinao Mishima, President, Tokyo Institute of Techn	ıology
13:05-13:10	Greeting: Tomonori Nishii, Director, Scientific Research Institutes Divisio Promotion Bureau, MEXT	n, Research
13:10-13:20	Introduction of Research Center for Biomedical Engineering: Yuji Miyahara, Tokyo Medical and Dental University	

Session A	Chair: Masato Sone, Tokyo Institute of Technology
13:20-14:00	Etienne Burdet, Imperial College London (Invited) "Human-robot Interaction Control Framework for Neurorehabilitation"
14:00-14:15	Yasuharu Koike, Tokyo Institute of Technology "Neurorehabilitation with Brain-machine Interface"
14:15-14:30	Joon-wan KIM, Tokyo Institute of Technology "Micro/nano Patterning for Biomaterial Controlled by Electrostatic Force"
14:30-14:45	Hiroyasu Kanetaka, Tohoku University "Biomedical Engineering Investigation for Medical Application of Nickel-free Shape Memory and Super Elastic Alloy"

14:45-16:15 Poster Session 1 and Coffee Break

Academic-Industrial Collaboration Session

Chair: Tadahiko Shinshi, Tokyo Institute of Technology

16:25-16:50 Takashi Yamane, Kobe University (Invited)

"Development and Evaluation of Mechanical Circulatory Support Devices"

16:50-17:15 Akihiro Miyauchi, Hitachi Ltd. (Invited)

"Formation of Surface Structure by Nanoimprint and Biomimetics"

17:15-17:40 Masayuki Tsuji, Cadence Design Systems (Invited)

"Real-time Processing of Computer-Aided Diagnosis System for Colorectal Tumor Classification in NBI Endoscopy Using CNN Features by Implementing to Tensilica Vision P6 DSP"

17:40-18:05 Akifumi Koike, ANSeeN Inc. (Invited)

"Material Identification CT Using X-ray Attenuation Length Detection Line Sensor"

Networking Chair: Takeshi Hatsuzawa, Tokyo Institute of Te	echnology
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18:15-20:00

November 10 —

Session B	Chair: Kenji Kawashima, Tokyo Medical and Dental University
10:00-10:40	Wim E. Hennink, Utrecht University (Invited) "Nanogels for the Intracellular Delivery of Proteins for Cancer Treatment"
10:40-10:55	Yoshikazu Nakajima, Tokyo Medical and Dental University "Integration of Sensing, Simulation and AI Analysis in Medicine"
10:55-11:10	Koji Toma, Tokyo Medical and Dental University "Reusable Immunosensors Allowing Semi-continuous Measurement for Clinical and Environmental Medicine"
11:10-11:25	Horacio Cabral, The University of Tokyo "Ligand Strategies for Tumor-targeted Nanomedicine"
11:25-13:15	Poster Session 2 & Lunch
Session C	Chair: Takamaro Kikkawa, Hiroshima University
13:25-14:05	Emily Porter, National University of Ireland, Galway (Invited) "Microwave Radar for Breast Cancer Detection: Progress and Looking Towards the Future"
14:05-14:20	Shin Yokoyama, Hiroshima University "Biosensors Using Silicon Optical Resonators"
14:20-14:35	Shin-Ichiro Kuroki, Hiroshima University "4H-SiC Self-aligned Gate MOSFETs and Logic Inverters for Harsh Environment Electronics"
14:35-14:50	Takeshi Ohshima, National Institutes for Quantum and Radiological Science and Technology "Ultra-radiation-hardened Semiconductor Devices Using Silicon Carbide"
14:50-15:10	Coffee Break
Session D	Chair: Keiichiro Kagawa, Shizuoka University
15:10-15:50	Zhongping Chen, University of California, Irvine (Invited) "Advances in Integrated Multimodality Intravascular Imaging for Assessing and Characterizing Atherosclerotic Plaques"
15:50-16:05	Masahito Yamazaki, Shizuoka University "Mode of Action of Antimicrobial Peptides and Cell-penetrating Peptides — Single GUV Studies —"
16:05-16:20	Wataru Inami, Shizuoka University "Electron beam addressable potentiometric sensor for nanoscale imaging of ion distribution"
16:20-16:35	Keisuke Tominaga, Kobe University "Terahertz Spectroscopy and Theoretical Calculation on Biologically Important Molecules and Pharmaceutical Molecules"
Closing Ses	sion Chair: Hideki Hosoda, Tokyo Institute of Technology

16:35-16:50 Award Ceremony

Closing Remarks: Shin Yokoyama, Hiroshima University