

The 2nd UoM-SeoulTech International Joint Workshop Program				
20 August 2026				
Sesson Type	Time	Presentation No.	Presenter	Title
	9:00-9:50	Reception		
	9:50-9:55	Opening Celemony	Prof. Kensuke Nishioka	
Oral(O1) D204 Chair: Prof. Yeunwoong Kyung	10:00-10:30	01 (Keynote)	Prof. Kawasue Kikuhito	Intelligent Measurement Using 3D Vision and AI:From Livestock Farming to Healthcare
	10:30-10:45	02	Prof. Min-Woo Kwon	New Memory and Logic Devices for Processing-in-Memory Operation
	10:45-11:00	03	Kota Hirose	Effect of Feedback-Point Placement on Measurement-Integrated Simulation of Flow Around a Circular Cylinder
	11:10-11:25	04	Nyoman Budiawan	Comparative Study of Cell-Level Series-Parallel and Total Cross-Tied Interconnection Topologies for Photovoltaic Modules Under Partial Shading
	11:25-11:40	05	Prof. Hyeongmin Lee	Not All Prediction Targets Keep Training-Free Diffusion Guidance on the Manifold
	11:40-11:55	06	Toshiya Kurazono	3D Electromagnetic Inverse Analysis Based on Physics-Informed Machine Learning
	11:55-12:10	07	Prof. Kang-Min Choi	Predicting Phenoconversion in Patients with Isolated REM Sleep Behavior Disorder Using Electrophysiological Biomarkers
	12:10-13:30	Lunch		
	13:30-14:30	Poster		
Oral(O2) D204 Chair: Prof. Hyeongmin Lee	14:45-15:00	08	Yosuke Iwai	Study of Electromagnetic Field Analysis Methods for EMC Evaluation of Microwave Scalpels in Operating Room
	15:00-15:15	09	Prof. Geunho Lee	Convergence of Robotics, IoT, and Intelligent Sensing
	15:30-15:45	10	Prof. Yeunwoong Kyung	Mobile Networks at a Turning Point: From 1G to 6G
	15:45-15:50	Announcement	Prof. Amane Takei	
Poster(P1) D205 Chair: Prof. Kensuke Nishioka	13:30-14:30	0001	Kotona Tabata	Electrode Pattern Optimization on InGaAsP Photovoltaic Devices for Laser Power Converter
		0002	Hinata Tsumagari	Development of an Automatic Pig Weight Estimation System Using a 3D Camera and AR Smart Glasses
		0003	Koki Nakase	A Pig Weight Distribution Measurement System Using a Cable-Guided Mobile 3D Camera
		0004	Youngyeong Kang	Reliability and Latency-Aware ATSSS Framework for URLLC Services
		0005	Ryouichi Iwamoto	A Study on Thermal Conduction Analysis Methods for the Establishment of Fertility-Preserving Surgery
		0006	Kohei Oga	Study on Simulation Methods for Evaluating Thermal Injury in Human Bodies During Microwave Scalpel Use
		0007	Ryusei Kikuta	Large-Scale Electromagnetic Wave Analysis for EMC Consideration inside Operating Room using Microwave Scalpel
		0008	Jaewon Lee	A Dual-Gate Feedback Field-Effect Transistor for Circuit-Level Steep-Switching Analysis
		0009	Ryusei Kiba	Basic Study on Improving Performance of Absorbing Boundary Conditions Applied to High-Frequency Electromagnetic Field Finite Element Analysis
		0010	Seiya Kuwano	A Study of Wave Analysis Methods Based on Functional Elements
		0011	Shori Hayashizono	Study of Numerical Wave Analysis Methods for Musical Instrument Acoustic Analysis
		0012	Taiga Goto	Investigation of Repeated Chemical Immersion Treatment for Degraded PEM Water Electrolysis
		0013	Jehyeok Nam	Aperiodic EEG Component in Isolated REM Sleep Behavior Disorder
		0014	Koshi Matsunaga	Evaluation of Power Generation Improvement by Optimal String Configuration in Large-Scale Photovoltaic Systems Under Forest Shading
		0015	Ryo Mawatari	Image-Based Quantitative Evaluation of Soiling on Photovoltaic Panel Soiling for Cleaning Decisions
		0016	Yamato Yamashita	Four-Corner Fisheye View Synthesis for Intra-Panel Mapping of Solar Irradiance and Power Generation
		0017	Pyae Pyae Shwe Sin	Evaluation of the Effects of Metal Ion Species on the Performance of PEM Water Electrolysis Cells
		0018	Youngyeong Kang	Boccia Ball Collection Robot Based on Time-Optimal Path Planning Algorithm
		0019	Tasuku Koga	Automated Monitoring System for Oral Temperature and Drinking Behavior in Pigs
		0020	Kosei Shiinoki	Development and Performance Evaluation of Shrimp-Inspired Underwater Robot
		0021	Miki Nishio	Relationship between Be disk of Be/X-ray binary 4U 0115+63 and X-ray outburst
		0022	Keito Katsuki	Development and Control of Autonomous Hammering Robot for Infrastructure Inspection
		0023	Minju Kim	Wildlife Deterrence Robot
		0024	Yuki Arakawa	Evaluation of Tibiofemoral Contact Pressure Following Implantation of a Newly Developed Float-Ring Meniscus Implant in a Porcine Knee Model Following Meniscectomy