2026 JOINT SYMPOSIUM

Taipei Tech x Kyushu U.

AGENDA

Nov. 10 / 2F-The Lecture Hall, GIS Taipei Tech Convention Center

A AI and Smart Engineering **B** Advanced Materials, Photonics and Optoelectronics **C** Green Energy and Sustainable Engineering

Time	Session		Speaker(s)	Presentation Topic
09:30-09:40	Opening Remarks			
09:40-10:20	Session A	09:40	Cheng-Yen Chiang 蔣政諺 Taipei Tech	Deep Learning Based Optical-to-SAR Franslation for Pre-Launch Satellite Image Quality Assessment
		10:00	Yan-Ann Chen 陳彥安 Taipei Tech	Leveraging VLM-Generated Semantic Representations for Fine-Grained Vehicle Recognition
10:20-11:20	Session C1	10:20	Takuro MASUMURA 増村拓朗 Kyushu U.	Development of High-Strength Austenitic Stainless Steel for Hydrogen Service Utilizing Nitrogen
		10:40	Juntae SONG Kyushu U.	Surface Microenvironment Engineering on Bi Electrocatalyst by Zr-Based Materials for High-Rate CO2 Electroreduction
		11:00	Ming-Yen Chen 陳明彥 Taipei Tech	The Design of A Rotating Device Driven By The Ion Wind
11:20-12:00	Session B1	11:20	Yu-Ruei Kung 龔宇睿 Taipei Tech	Synthesis and Applications of High-Performance Polymers for Optoelectronic and Energy Storage Devices
		11:40	Hsin-Hsin Hsieh 謝心心 Taipei Tech	Photovoltaic Packaging Technology: Reliability Challenges, Degradation Mechanisms, and Accelerated Testing
12:00-13:00	Lunch Time			
13:00-15:00	Session C2	13:00	Shinichi TSUDA 津田伸一 Kyushu U.	A Multi-Scale Analysis for Modeling of Vapor-Liquid Phase Change Process in Liquid Hydrogen Flow
		13:20	Shih-Gang Chen 陳世剛 Taipei Tech	Rare-Earth-Free and High-Efficiency Synchronous Reluctance Motor Drives for Sustainable Green Applications
		13:40	Mitsuo MATSUMOTO 松本光央 Kyushu U.	Mechanism and Potential Application of Periodic Flow in Geothermal Wells: An Integrated Approach Using Physical and AI-Based Modeling
		14:00	Yi-Hsuan Lee 李懿軒 Taipei Tech	Performance of Nanoparticle-Modified $Sr_2FexMo2-xO6-\delta$ Electrodes in SOECs for H2O and CO2 Electrolysis
		14:20	Keiichi ISHIZU 石須慶一 Kyushu U.	Electromagnetic Imaging for Sustainable Subsurface Energy Resources: Geothermal Systems and Natural Hydrogen
		14:40	Yuki EDAO 枝尾祐希 Kyushu U.	Research and Development of Tritium Fuel Cycle Technologies for Fusion Reactors
15:00-15:20	Tea Break			
15:20-17:20	Session B2	15:20	Shih-Wen Chen 陳詩雯 Taipei Tech	Metasurface Design for EMI Shielding Films
		15:40	Tatsushi HAMAGUCHI 濱口達史 Kyushu U.	Scaling VCSELs to Gigawatts: Toward Fusion Applications
		16:00	Chia-Hsun Chen 陳佳勳 Taipei Tech	Investigation of Molecular Stacking in High-Efficiency Blue Triplet–Triplet Fusion Organic Light-Emitting Diodes Via Grazing-Incidence Wide-Angle X-Ray Scattering
		16:20	Naoya TATE 竪 直也 Kyushu U.	Unique Magneto-Optical Properties of Al-Doped 4H-SiC Induced by Opto-Electronic Annealing
		16:40	Wei-Cheng Chen 陳威丞 Taipei Tech	Heterojunction Design of N-Type Conjugated Polymer/Perovskite Quantum Dot Hybrid Thin Films for Photosynaptic Electronics
		17:00	Amila KARIYAWASAM カーリヤワサム・アミラ Kyushu U.	Optical Phase Sensing: A Non-Electrical Approach to Wearable Muscle Activity Monitoring
17:20-17:30	Closing Remarks			

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