



INTERNATIONAL INSTITUTE FOR CARBON-NEUTRAL ENERGY RESEARCH

STATISTICS AND AI FOR ENERGY SYSTEMS RESEARCH

I²CNER-IMI JOINT INTERNATIONAL WORKSHOP

DATE: JANUARY 30, 2025

TIME: 13:30 PM – 17:10 PM (JAPAN TIME)

VENUE: HYBRID, ONSITE (IMI AUDITORIUM, W1-D413) AND ZOOM MEETING

Time	Speaker	Affiliation	Title
13:30 – 13:35	Kenji Kajiwara	Director of IMI, Kyushu University	Opening speech
13:35 – 14:05	Daniel Packwood	iCeMS, Kyoto University	Data science for organic semiconductors and metal-organic frameworks
14:05 – 14:35	Adroit Fajar	I ² CNER, Kyushu University	Iterative Fine-Tuning of Large Language Models to Generate Molecules for Decarbonization
14:35 – 15:05	Hien Duy Nguyen	IMI, Kyushu University, and Latrobe University	Approximation and estimation of density functions by finite mixture models
15:05 – 15:35	Karmaker Shamal Chandra	I ² CNER, Kyushu University	Statistical Modeling for Energy and Society
15:35 – 16:05	Kei Hirose	IMI, Kyushu University	Learning theory of aggregation value regression
16:05 – 16:35	Yuan Gao	I ² CNER, Kyushu University	How to address the two major engineering challenges in implementing deep learning for energy consumption prediction: lack of interpretability and scarcity of training data
16:35 – 17:05	Nguyen Thi Hoai Linh	I ² CNER, Kyushu University	Generative physical rock models based on Gaussian mixtures and persistence-based optimization

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