



INTERNATIONAL INSTITUTE FOR CARBON-NEUTRAL ENERGY RESEARCH

MATHEMATICAL RESEARCH IN ENERGY SYSTEMS

I²CNER-IMI JOINT INTERNATIONAL WORKSHOP

DATE: FEBRUARY 2ND, 2024

TIME: 13:30 – 17:10 (JAPAN TIME)

VENUE: HYBRID, ONSITE (ROOM 217, I2CNER BLD. 1) AND ZOOM MEETING

Time	Speaker	Affiliation	Title
13:30 – 13:35	Tatsumi Ishihara	Director of I ² CNER, Kyushu University	Opening speech
13:35 – 14:05	Nguyen Dinh Hoa	I ² CNER and IMI, Kyushu University	Inverse optimization for peer-to-peer energy market design
14:05 – 14:35	Kei Hirose	IMI, Kyushu University	Factor analysis and its application to energy data analysis
14:35 – 15:05	Aleksandar Staykov	I ² CNER, Kyushu University	Application of non-equilibrium Green's functions to nanoelectronics
15:05 – 15:35	Pierluigi Cesana	IMI, Kyushu University	Fully Automated Optimization of Ring-Opening Reactions in Lactone Derivatives via 2-step Machine Learning
15:35 – 16:05	MD. Amirul Islam	I ² CNER, Kyushu University	Significant reduction of power consumption and total equivalent warming impact (TEWI) through solar-assisted adsorption cooling
16:05 – 16:35	Kaname Matsue	IMI and I ² CNER, Kyushu University	Interaction between flame and physicochemical phenomena based on asymptotic studies: continued
16:35 – 17:05	Nguyen Thi Hoai Linh	I ² CNER, Kyushu University	Lithology Characterization and Selection for CO ₂ Geological Storage via Time Domain Random Walks in Time-dependent Random Environments
17:05 – 17:10	Kenji Kajiwara	Director of IMI, Kyushu University	Closing remarks

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