IEEJ P&ES – IEEE PES Thailand

Joint Symposium 2025

– Advanced Technology in Power Systems –

March 7, 2025

The 10nd Floor, I-Residence Hotel Silom

Co-organized by

ELECTRICAL ENGINEERING
SINCE 1929
CHULALONGKORN UNIVERSITY

Center of Excellence in
Electrical Power Technology

For on-site participants

Venue map
https://s.uni.net.th/oczip06k8v
I-Residence Hotel Silom

For online participants

Join Zoom Meeting
https://s.uni.net.th/ez2sjh5f09
Meeting ID: 926 9348 0988
Password: 070325

-- Technical Program ---------------------------------------

08:00-08:45   Registration

08:40-09:00   Opening address

Session I

09:00-09:20   Evaluation of EVs' Contribution to Grid Flexibility in Unit Commitment Schedule
TJS-25-004   based on Origin-Destination Data

Masato Arako, Ryoichi Hara, Nobuaki Kawashima, Hiroyuki Kita (Hokkaido University)

09:20-09:40   A Study on Unit Commitment Strategies in Power Systems Incorporating Wind
PES-25-001   Energy and Battery Storage to Strengthen System Stability and Minimize Spinning
Reserve Costs

Chatchuea Pranprommin, Surachai Chaitusaney (Chulalongkorn University)

09:40-10:00   Preliminary Study on Unit Commitment for Renewable Energy Integration
TJS-25-006   Considering Operation Cost and Life Cycle Assessment

Kozhobekov Kadyrbek, Ryuto Shigenobu, Masakazu Ito, Akiko Takahashi (University of Fukui) Kyungsoo Lee (Tech University of Korea)

10:00-10:20   A design of reserve market in peer-to-peer electricity market for DSO
PES-25-002   *Panithan Srisurapanon, Pikkanate Angphiwatchawal, Surachai Chaitusaney (Chulalongkorn University)*

10:20-10:40   Break

Session II

10:40-11:00   Suppression Method of Voltage Flicker by Automatic Frequency Feedback Gain
TJS-25-002   Adjustment of Interconnected Inverters in Distribution System

Ayano Kusaba, Maiki Hoshi, Shoji Kawasaki (Meiji University)

11:00-11:20   Dynamic Impact of Grid-Forming Inverters on Frequency and Voltage Stability in
PES-25-003   Thailand

Agcarapole Chutranonte, Teeramet Metharwanitpong, Nottakorn Sukmanont,

Thongchart Kerdphol (Kasetsart University)

11:20-11:40   An Operational Planning Method for Microgrids Integrated with Carsharing-Based
TJS-25-003   MaaS at a Practical Scale

Yida Li, Ryoichi Hara, Nobuaki Kawashima, Hiroyuki Kita (Hokkaido University)

11:40-12:00 PES-25-004	Virtual Inertia-Integrated Railway Power Conditioner *Thunwa Boonlert, Komsan Hongesombut (Kasetsart University)*
12:00-13:00	Lunch

Session III

13:00-13:20 TJS-25-005	Time-synchronized Measurement of both ICT Response Time and Full Activation Time for Fast Demand Response of Electric Vehicle Charging *+Masaki Imanaka, Hiroyuki Baba (The University of Tokyo)*
13:20-13:40 PES-25-005	Improved State-of-Charge Satisfaction Method for Electric Vehicles in Frequency Containment Reserve *Chaowanan Jamroen, Dulpichet Rerkpreedapong, Sanchai Dechanupaprittha (Kasetsart University)*
13:40-14:00 PES-25-006	Energy Consumption Modeling for Optimizing Reliable Electric Bus Operations *Sakawrat Sricharoen, Komsan Hongesombut (Kasetsart University)*
14:00-14:20	Break

Session IV

14:20-14:40 TJS-25-001	A Study on Estimation of Static Capacitor Capacity in Distribution Systems **Yuki Hotta, Taishi Karasawa, Shoji Kawasaki (Meiji University)*
14:40-15:00 PES-25-007	Reliability Assessment of Distribution Systems with Multiple Uncertainties Using Fuzzy Logic *Nottakorn Sukmanont, Sirapatara Auntha, Dhamrongsak Khakkharho, Pongsakorn Anantarativakorn, Dulpichet Rerkpreedapong, *Thongchart Kerdphol (Kasetsart University)*
15:00-15:20 TJS-25-007	A Proposal for a Detection Method of Short-Gap Arcs Generated in Low Voltage DC Facilities *+Mikimasa Iwata, Naoki Nishiyama, Yasunobu Yokomizu, Naoto Kodama, Ayaka Nakamura (Nagoya University) Tomoyasu Sakai, Masahiro Tsukahara, Atsushi Miyamoto (Nitto Kogyo Corporation)*