

Program

Wednesday, December 10, 2008

Opening Ceremony

Time: 10:00-10:10

Venue: Academy Common 2F Rooms A2 &A3

Plenary Talk 1

Time: 10:10-11:00

Venue: Academy Common 2F Rooms A2 &A3

Chair: Hiroyuki Mori, Meiji University, Japan

Intelligent System Application in Wind Power Utilization

Istvan Erlich, University of Duisburg-Essen, Germany

Break (11:00-11:10)

Plenary Talk 2

Time: 11:10-12:00

Venue: Academy Common 2F Rooms A2 &A3

Chair: Hiroyuki Mori, Meiji University, Japan

FACTS and DFIGs of Wind Power for Smart Grid Systems: Control and Implementation

Chia-Chi Chu, National Tsing Hua University, Taiwan

Lunch Break (12:00-12:50)

Plenary Talk 3

Time: 12:50-13:40

Venue: Academy Common 2F Rooms A2 &A3

Chair: Teruhisa Kumano, Meiji University, Japan

Ubiquity in Next Generation Power Systems and Some Associated Features and Challenges

Kithsiri M. Liyanage, University of Peradeniya, Sri Lanka

Akihiko Yokoyama, University of Tokyo, Japan

Break (13:40-13:50)

Invited Paper Session A (13:50-14:50)

Venue: Academy Common 2F Rooms A2 &A3

Chair: Hiroyuki Mori, Meiji University, Japan

Invited Paper A1(13:50-14:20)

Optimal Refuse Disposal Planning Considering the Environmental Load Minimization

Masakazu Kato, Tokyo Denki University, Japan

Hideo Sugahara Tokyo Denki University, Japan

Yoshihiro Aoyagi, Tokyo Denki University, Japan

Invited Paper A2 (14:20-14:50)

Impacts of Wind Power on a Power System - Results of Some Related Researches in Japan

Toshiya Nanahara, CRIEPI, Japan

Break (14:50-15:00)

Invited Paper Session B (15:00-16:30)

Venue: Academy Common 2F Rooms A2 &A3

Chair: Teruhisa Kumano, Meiji University, Japan

Invited Paper B1 (15:00-15:30)

Fast Estimation of Eigenvalues of Power Systems Using Mode Coupling Method

Naoyuki Uchida, Tokyo University of Science, Japan

Invited Talk B2 (15:30-16:00)

An Economic and Reliability Evaluation for the Operation of Distributed Energy Resources

Yutaka Sasaki, Hiroshima University, Japan

Naoto Yorino, Hiroshima University, Japan

Yoshifumi Zoka, Hiroshima University, Japan

Invited Paper B3 (16:00-16:30)

Demonstrative Research on Clustered PV Systems

Yusuke Miyamoto, Kandenko, Japan

Poster Session ^{*1}

Time: 16:30-18:30

Venue: Academy Common 2F Rooms A4, A5 & A6

Chair: Hiroyuki Mori, Meiji University, Japan

Note) ^{*1} Complementary hors d'oeuvre and drinks are available.

P1 Rule Based Intelligent Voltage Control of Hybrid Clean Energy System

Kensuke Inuzuka, Meiji University, Japan

Yu Okubo, Meiji University, Japan

Naoki Hosaka, Meiji University, Japan

Teruhisa Kumano, Meiji University, Japan

P2 A Fast Computing Method of Shortest Path Problems using FPGA

Tetsuo Araki, Meiji University, Japan

Teruhisa Kumano, Meiji University, Japan

P3 Available Transfer Capability Screening Considering Transient Stability by Support Vector Machine

Hiroaki Takahashi, Meiji University, Japan

Akihiro Wada, Meiji University, Japan

Teruhisa Kumano, Meiji University, Japan

P4 Development of Independent form Photovoltaic generation system and Evaluation of the Economy and Environment

Kazuaki Terao, Meiji University, Japan

Teruhisa Kumano, Meiji University, Japan

Tomonaga Otsuka, Meiji University, Japan

Toshihiko Nakano, Meiji University, Japan

P5 A Verification of the Advantage of Hourly Data Consideration in Hours Ahead Demand Forecast

Naoki Kojima, Meiji University, Japan

Teruhisa Kumano, Meiji University, Japan

- P6 A Simulation of Voltage Stabilization by Rule Base Control**
Yu Ookubo, Meiji University, Japan
Teruhisa Kumano, Meiji University, Japan
Hiroaki Takahashi, Meiji University, Japan
Naoki Hosaka, Meiji University, Japan
Yoshiro Tokuda, Meiji University, Japan
- P7 A Simulation of Thermal Conductivity and Joule-heat of Superconducting Y-Ba-Cu-O**
Takayuki Taguchi, Meiji University, Japan
Teruhisa Kumano, Meiji University, Japan
- P8 A Fundamental Study on the Voltage Collapse by Group Behavior of On-Load Tap Changers**
Yoshiro Tokuda, Meiji University, Japan
Teruhisa Kumano, Meiji University, Japan
- P9 Voltage Control of Power System with Large Wind Power Generation**
Naoki Hosaka, Meiji University, Japan
Teruhisa Kumano, Meiji University, Japan
- P10 The Impacts of Superconducting Generator upon Power Systems with Wind Power Plants**
Masashi Ogura, Meiji University, Japan
Teruhisa Kumano, Meiji University, Japan
- P11 Evolutionary Programming Incorporating Neural Network for Transient Stability Constrained Optimal Power Flow**
Kritsana Tangpatiphan, University of Tokyo, Japan
Akihiko Yokoyama, University of Tokyo, Japan
- P12 Stochastic Estimation of Voltage Sags in Power Systems**
Le Viet Tien, University of Tokyo, Japan
Akihiko Yokoyama, University of Tokyo, Japan
- P13 Risk-Based TTC Calculation in a Power System with Wind Generation Systems**
Nattawut Paensuwan, University of Tokyo, Japan
Akihiko Yokoyama, University of Tokyo, Japan

P14 A Frequency Domain Approach to Coordinating Resources of Load Frequency Control of a Power System

Yuta Hamada, Tokyo Institute of Technology, Japan

Yoshihiko Kataoka, Tokyo Institute of Technology, Japan

P15 Performance Evaluations of AR, CPS, MAC as LFC Indices

Naoto Yorino, Hiroshima University, Japan

Yoshifumi Zoka, Hiroshima University, Japan

H. Nakayama, Hiroshima University, Japan

Yuji Ohnishi, Hiroshima University, Japan

Yutaka Sasaki, Hiroshima University, Japan

Mohd Hafiz Habi Buddin, Hiroshima University, Japan

P16 Optimal VAR Allocation by Means of Heuristic Technique

Mehdi Eghbal, Hiroshima University, Japan

Naoto Yorino, Hiroshima University, Japan

Yoshifumi Zoka, Hiroshima University, Japan

Yutaka Sasaki, Hiroshima University, Japan

E.E. El-Araby, Suez Canal University, Egypt

Rony Seto Wibowo, Hiroshima University, Japan

P17 Particle Swarm Optimization with Convergence Control

Naoya Nakagawa, Osaka Prefecture University, Japan

Atsushi Ishigame, Osaka Prefecture University, Japan

P18 Time Series VQC Approach Considering Time Lag of Voltage Control Device

Yasuo Shigemori, Osaka Prefecture University, Japan

Atsushi Ishigame, Osaka Prefecture University, Japan

Osamu Yasubo, Kansai Electric Power Company, Japan

Takeshi Kawaguchi, Kansai Electric Power Company, Japan

P19 Typical Fuel Cell technology for Dispersed Generation

Nguyen Duc Tuyen, Shibaura Institute of Technology, Japan

Goro Fujita, Shibaura Institute of Technology, Japan

P20 Development of Vehicle Power System Friendly to the Environment

Ryuta Ochiai Shibaura Institute of Technology, Japan

Norio Nagashima, Shibaura Institute of Technology, Japan

Goro Fujita, Shibaura Institute of Technology, Japan

Takafumi Fukada, Isuzu Advanced Engineering Center, Ltd

P21 How to Use Battery Which Is Effective for Power Supply

Yoshihiro Kusaba, Shibaura Institute of Technology, Japan

Goro Fujita, Shibaura Institute of Technology, Japan

Toshihisa Funabashi, Meidensha Corporation, Japan

N. Nomura, Meidensha Corporation, Japan

Ryuichi Yokoyama, Waseda University, Japan

P22 Network Reconfiguration and Capacitor Control for Loss Minimization in Distribution Systems with Multi-objective Meta-heuristics

Kojiro Shimomugi, Meiji University, Japan

Hiroyuki Mori, Meiji University, Japan

P23 Application of Relevance Vector Machine to Temperature Forecasting for Short-term Load Forecasting

Daisuke Kanaoka, Meiji University, Japan

Hiroyuki Mori, Meiji University, Japan

P24 Continuation Power Flow for Voltage Stability Analysis in Three-phase Unbalanced Distribution Systems

Koutaro Seki, Meiji University, Japan

Hiroyuki Mori, Meiji University, Japan

P25 Development of Distribution System Service Restoration Algorithm with Probabilistic TS

Takayuki Muroi, Meiji University, Japan

Hiroyuki Mori, Meiji University, Japan

P26 Application of EPSO to Determination of Non-Gaussian Probabilistic Density Function for Probabilistic Load Flow

Wenjun Jiang, Meiji University, Japan

Hiroyuki Mori, Meiji University, Japan

P27 Application of SPEA2 with VLS to Multi-objective Distribution Network Expansion Planning

Takafumi Yoshida, Meiji University, Japan

Hiroyuki Mori, Meiji University, Japan

P28 Short Term Unit Commitment Scheduling with Priority List Limit Based Hybrid Meta-Heuristics

Kenta Okawa, Meiji University, Japan

Hiroyuki Mori, Meiji University, Japan

P29 A Data Mining Method for Selecting Meteorological Variables in Wind Speed Prediction

Yasushi Umezawa, Meiji University, Japan

Hiroyuki Mori, Meiji University, Japan

P30 Quantitative Estimation of Reduction of CO₂ Emission by NAS Battery

Y. Hida, Waseda University, Japan

R. Yokoyama, Waseda University, Japan

K. Iba, Meisei University

K. Tanaka, K. Yabe, Tokyo Electric Power Co. Inc.

P31 Contribution for CO₂ Emission Reduction by Microgrid Including Sustainable Energy and Battery

N. Saito, Waseda University, Japan

T. Niimura, Waseda University, Japan

K. Koyanagi, Waseda University, Japan

R. Yokoyama, Waseda University, Japan

P32 Noise Level Reduction in Outdoor Substations by Pseudo-Inverse Matrix

D. Yamashita, Waseda University, Japan

H. Tanaka, Waseda University, Japan

T. Niimura, Waseda University, Japan

R. Yokoyama, Waseda University, Japan

P33 Operation of Micro Grid with Renewal Sources

Y. Chiba, Waseda University, Japan

R. Yokoyama, Waseda University, Japan

K. Koyanagi, Waseda University, Japan

G. Fujita, Shibaura, Institute of Technology, Japan

Toshihisa Funabashi, Meidensha Corporation, Japan

N. Nomura, Meidensha Corporation, Japan

P34 Practical SVC Allocation to Regulate Probabilistic Voltage Changes in Distribution Networks

Y. Sano, Waseda University, Japan

K. Sato, Tokyo Electric Power Company, Japan

M. Taki, Tokyo Metropolitan University, Japan

R. Yokoyama, Waseda University, Japan