IEEJ-EIT Joint Symposium on Advanced Technology in Power Systems

Power and Energy Engineering for Low-carbon Society

26-27 November 2009, Rama Gardens Hotel

	26th November 2009
Гіте	Grand Ballroom 1, Rama Gardens Hotel
	IEEJ - EIT and University and Utility Research
08.00 - 09.00	Registration
09.00 - 09.30	Introductory Remark by Mr. Wiwat Kulwongwit, Chairman of Electrical Engineering, EIT
	Opening Address by
	Professor Dr. Satoshi Matsumoto, Officers, Editorial Affairs of Power and Energy Society, IEEJ
	Mr. Prasong Tharachai, President of EIT
	Mr. Naris Srinual, Chairman of IEEE Thailand Section
Moderator by :	Dr. Channarong Banmongkol (Chulalongkorn University), Asst. Prof. Dr. Pathomthat Chiradeja (Srinakharinwirot University) and Mr. Kanchit Ngamsan
Session Chairm	an : To be confirmed
09.30 - 09.50	Trade-off Analysis of CO2 Versus Cost for Unit Commitment Problem by Multi-objective Optimization
	D. Yamashita, K. Hasegawa, A Mohd Isa, T. Niimura, R. Yokoyama (Waseda University), M. Marmiroli (Mitsubishi Electric Corp.)
09.50 - 10.10	Analysis of Power System Dynamics Using Center of Inertia Estimated by Actual Measurement Data
	Takuhei Hashiguchi, Tadahiro Goda (Kyushu University), Yasunori Mitani, Masayuki Watanabe (Kyushu Institute of Technology), Osamu Saeki
	(Osaka University), Masahide Hojo (The University of Tokushima), Hiroyuki Ukai (Nagoya Institute of Technology)
10.10 - 10.30	An Improved Controller Design of Distributed Energy Resources based on Synchronized Phasor Measurement and Metaheuristic Optimization
	Sanchai Dechanupaprittha, Masayuki Watanabe, and Yasunori Mitani (Kyushu Institute of Technology)
10.30 - 11.00	Coffee Break
11.00 - 11.20	Determination of Optimal Replacement Order for Obsolete Equipments In Aged Substations Using Branch-and-Bound Method
	Hideaki Tanaka (Tokyo Electric Power Company), Hideki Magori (Tokyo Electric Power Services Company), Kaoru Koyanagi, Ryuichi
	Yokoyama (Waseda University)
11.20 - 11.40	Utilization of An Asset Information Base for Advanced Power Transmission Asset Management
	Tomiyasu Ichimura, Ken Kuroda, Kenichi Yamagishi, Wataru Kawai, Kazuya Sasaki (Fujitsu Limited)
11.40 - 12.00	Integrated Supply Reliability Evaluation for a Distribution Substation Considering Restoration Scenarios at Different Demand Levels
	Isao Kitajima, Hideaki Tanaka, Ryuichi Yokoyama (Waseda University)
12.00 - 13.00	Lunch
Session Chairm	nan : To be confirmed
13.10 - 13.30	Short Term Price Forecasting of New South Wales Electricity Using Wavelet Transform in Artificial Neural Network Based Model
	Phatchakorn Areekul, Tomonobu Senjyu, Naomitsu Urasaki, Atsushi Yona (University of the Ryukyus)
13.30 - 13.50	Next Day Price Forecasting by a hybrid Artificial Neural Network and ARIMA Time Series Models in Deregulated Market
	Phatchakorn Areekul, Tomonobu Senjyu, Naomitsu Urasaki, Atsushi Yona (University of the Ryukyus)
13.50 - 14.10	EIT-IEEE PES (Thailand) : To be confirmed
	To be confirmed
Session Chairm	an : To be confirmed
14.10 - 14.30	Power Generating Characteristic of PV Array and Its Dependency on Direction and Tilt Angle of PV Panels
	Toshiyuki Ito (Tokyo Gas Co., Ltd.), Naoki Saito (Waseda University), Tatsuya Tsukada (Tokyo Gas Co., Ltd.), Kaoru Koyanagi, Takahide
	Niimura, Ryuichi Yokoyama (Waseda University)
14.30 - 14.50	EIT-IEEE PES (Thailand) : To be confirmed
14.30 - 14.30	To be confirmed

14.50) - 1	5.20	
-------	-------	------	--

Coffee Break

Session Chairman : To be confirmed

15.20 - 15.40 Measurement and Analysis of Wind Speed and Intensity of Solar Radiation for Wind Power Generation and Photovoltaic Generation

Kiyofumi Fujii, Kaoru Koyanagi, Ryuichi Yokoyama (Waseda University)

15.40 - 16.00 Analysis of Power Supply System Using Dispersed Power System in A University

Yoshihiro Kusaba, Ryuich Yokoyama, Kaoru Koyanagi (Waseda University), Goro Fujita (Shibaura Institute of technology)

Session Chairman : To be confirmed

16.00 - 16.20 Improvement of Power System Stability by Operation and Control of NAS (Sodium Sulfur) Battery System

Kenji Hasegawa, Kaoru Koyanagi, Ryuichi Yokoyama (Waseda University)

16.20 - 16.40 EIT-IEEE PES (Thailand) : To be confirmed

To be confirmed

16.40 - 17.00 A Study on Control Method of Distributed Generators to Maximize Output of Power Generation under High Penetration Conditions

Shinsuke Tsujita, Takao Shinji (Tokyo Gas Co., Ltd.), Tsutomu Oyama, Takao Tsuji (Yokohama National University)

17.00 - 17.20 Fundamental Properties of the Electric Double Layer Capacitor and its Application to Power System

Tatsuhito Nakajima, Akiko Kumada, Hisatoshi Ikeda, Kunihiko Hidaka (University of Tokyo), Satoshi Matsumoto (Shibaura Institute of

Technology), Katsuhiko Harada (Kyushu Institute of Technology), Tokihiro Umemura (Mie University)

18.30 - 20.30 Welcome Dinner : IEEJ-EIT 2009 at Tulip Room

27th November 2009				
Time	Grand Ballroom 1, Rama Gardens Hotel			
	IEEJ - EIT and University and Utility Research			
Session Chairm	ian - To be confirmed			
	Session Chairman : To be confirmed			
<mark>09.00 - 09.20</mark>	Optimal Allocation of SVCs Based on Tabu Search Against Voltage Variations Caused by Sustainable Energy Generations			
00.00.00.40	Yuta Sano, Ryuichi Yokoyama, Kaoru Koyanagi (Waseda University), Kazuyuki Sato, Masao Taki, (Tokyo Metropolitan University)			
<mark>09.20 - 09.40</mark>	A Study of Cooperative Tap Control Method for Voltage Profile Maintenance in Distribution Network with Distributed Generators			
	Takao Tsuji, Tran Nguyen, Tsutomu Oyama (Yokohama National University), Takuhei Hashiguch, Tadahiro Goda (Kyushu University), Takao			
00.40 10.00	Shinji, Shinsuke Tsujita (Tokyo Gas Co., Ltd.)			
<mark>09.40 - 10.00</mark>	An Advanced Fault Current Limiter of Rectifier Type in Distribution Network			
10.00 10.20	Noboru Sato, Junichi Arai (Kogakuin University)			
10.00 - 10.20	A study of Isolated Operation and Stability Control of a Microgrid System Supplying Different Power Quality Loads			
	Sho Kakuta, Guohong Wu (Tohoku Gakuin University), Chung-Neng Huang (National University of Tainan), Longyun Kang (South China			
10.20 10.50	University of Technology)			
10.20 - 10.50	Coffee Break aan : To be confirmed			
10.50 - 11.10	Study of Microgird with Generator and Inverter Power Sources			
10.30 - 11.10	Koji Ikehata, Junichi Arai (Kogakuin University)			
11.10 - 11.30	Electricity Cluster-Oriented Network with Renewable Energy Generation and Battery Energy Storage System			
11.10 11.50	Kaoru Koyanagi, Naoki Saito, Takahide Niimura, Ryuichi Yokoyama (Waseda University), Satoshi Nagata, Mikio Fujino (VPEC), Yasuhiro Noro			
11.30 - 11.50	Study of Load Frequency Control Model for Grid-independent Micro Grid			
11.50 11.50	Tadatsune Sato, Kaoru Koyanagi, Ryuichi Yokoyama (Waseda University), Kunihiro Nakao (Osaka Gas Co.)			
11.50 - 12.10	A Basic Study of Micro Hydraulic Power Generation System with a Regulating Pondage and Energy Storage			
11.00 12.10	Akinori Izumida, Guohong Wu (Tohoku Gakuin University)			
12.10 - 13.00	Lunch			
	an : To be confirmed			
13.10 - 13.30	Optimal Design of Energy Supply System in Microgrid in City-area Using Steam from Waste Incinerator			
	Shigeru Bando, Ryuta Urakawa, Eiichi Koda (The University of Tokyo)			
13.30 - 13.50	EIT-IEEE PES (Thailand) : To be confirmed			
	To be confirmed			
13.50 - 14.10	Simulation of an Inverter on ATPdraw			
	Ryo Tanaka, Junichi Arai (kogakuin University)			
Session Chairm	aan : To be confirmed			
<mark>14.10 - 14.30</mark>	A Study on Eccentric Mass Effect for Ice-Accreted Single Conductor Transmission Line Galloping			
	Go Sakaguchi (ARK Information Systems), Ryuichi Yokoyama (Waseda University), Mikio Shimizu (CRIEPI)			
<mark>14.30 - 14.50</mark>	Development of Arcing Horns Interrupting Fault Current for Overhead Transmission Lines			
	Toshiya Ohtaka, Mikimasa Iwata (Central Research Institute of Electric Power Industry), Kenichiro Nomura (Kansai Electric Power Co., Inc.),			
	Fumito Minoura (Tokyo Electric Power Co., Inc.), Naoyuki Tsukiyama (Chubu Electric Power Co., Inc.), Kentaro Kamimura (Nippon Katan Co.,			
14.50 - 15.20	Coffee Break			
Session Chairm	an : To be confirmed			

15.20- 15.40	Movement of Vacuum Arc Cathode Spots on SS400 (Fe+C) Surface with Oxide Layer	
	Toru Iwao, Shinya Kamishima, Naoko Ogura, Motoshige Yumoto (Tokyo City University)	
15.40 - 16.00	Research for Switching Phenomena in University	
	Katsuhiko Harada, Hiroaki Toda, Masahiro Kozako, Shinya Ohtsuka, Masayuki Hikita (Kyushu Institute of Technology), Hisatoshi Ikeda (The	
	University of Tokyo)	
Session Chairman : To be confirmed		
<mark>16.00 - 16.20</mark>	Study on Application of Fixed Speed Synchronous Generator in Wind Farm	
	Junichi Arai, Satoshi Namba, Masahiro Kiwada (Kogakuin University), Masahiro Tsumenaga (Toshiba Corporation)	
16.20 - 16.40	EIT-IEEE PES (Thailand) : To be confirmed	
	To be confirmed	
16.40 - 17.00	High Efficiency Electrical Power Generation and Methane Advanced Utilization Technology for Low Carbon Emission Society	
	Nob. Harada (Nagaoka University of Technology)	