

# IEEJ-EIT Joint Symposium on Advanced Technology in Power Systems

(The Joint Technical Meeting on Electrical Discharge Engineering, High Voltage Engineering, Switch and Protection Engineering, Static Apparatus Engineering, Power Systems Engineering, Distributed Generation and Power Quality)

**Date:** November 4, 2008 from 9:00 to 16:00  
November 5, 2008 from 9:00 to 16:00

**Venue:** Rama Gardens Hotel, Bangkok, Thailand

**Theme:** Power and Energy Engineering for Sustainable Social Development

**Organizer:** The Institute of Electrical Engineers of Japan (IEEJ)  
The Engineering Institute of Thailand (EIT)

**Co-organizer:** IEEE Power and Energy Society Thailand Chapter

## Power Systems Engineering

- ED-08- 151 Wide Area Robust Power System Stabilizer Design based on Synchronized Phasor  
SA-08- 83 Measurement Units  
SP-08- 66 ○Cuk Supriyadi A. N., Issarachai Ngamroo (King Mongkut's Institute of Technology),  
HV-08- 80 Sanchai Dechanupaprittha, Masayuki Watanabe, Yasunori Mitani  
PSE-08-166 (Kyushu Institute of Technology)
- ED-08- 152 Suppression of Tie-line Power Oscillation using Robust SMES Controller in Interconnected  
SA-08- 84 Power Systems with Wind Farms  
SP-08- 67 ○Cuk Supriyadi A. N., Issarachai Ngamroo (King Mongkut's Institute of Technology),  
HV-08- 81 Sanchai Dechanupaprittha, Masayuki Watanabe, Yasunori Mitani  
PSE-08- 167 (Kyushu Institute of Technology)
- ED-08- 153 Online Modal Analysis for Small-Signal Stability Based on Multiple Phasor Measurement  
SA-08- 85 ○Changsong Li, Masayuki Watanabe, Yasunori Mitani (Kyushu Institute of Technology)  
SP-08- 68  
HV-08- 82  
PSE-08- 168
- ED-08- 154 Analysis of Wide Power System Stability with Multiple Synchronized Phasor Measurement  
SA-08- 86 ○Takumi Kageyama, Yasunori Mitani, Masayuki Watanabe (Kyushu Institute of Technolog  
SP-08- 69 y),  
HV-08- 83 Masatoshi Okubo, Kosaku Yokota (Kansai Electric Power Co., Inc.)  
PSE-08-169
- ED-08- 155 Metaheuristic-based Controller Design of Distributed Energy Resources for Stabilization of  
SA-08- 87 Interconnected Power System based on Synchronized Phasor Measurements  
SP-08- 70 ○Sanchai Dechanupaprittha, Masayuki Watanabe, Yasunori Mitani (Kyushu Institute of  
HV-08- 84 Technology),  
PSE-08-170 Komsan Hongesombut (Tokyo Electric Power Company)  
Issarachai Ngamroo (King Mongkut's Institute of Technology)

**Microgrid**

- ED-08- 156 Application of Mobile Agent Technology for Control of Power Sources in Isolated Microgrid  
 SA-08- 88 ©Shuichiro Yamazaki, Motohisa Ishikawa, Junichi Arai (Kogakuin University),  
 SP-08- 71 Takaya Shono (Toshiba Corporation)  
 HV-08- 85  
 PSE-08-171
- ED-08- 157 Power Control of Interconnected Line between Microgrid and Large Power System Using  
 SA-08- 89 Mobile Agent Technologies  
 SP-08- 72 ©Motohisa Ishikawa, Shuichiro Yamazaki, Junichi Arai (Kogakuin University)  
 HV-08- 86  
 PSE-08-172
- ED-08- 158 Demonstrative Research Project on Micro Grid Stabilization in Thailand  
 SA-08- 90 ○Kiyoshi Takigawa, Hitoshi Kawakami, Yoshihiko Matsuura, Shigenori Matumura,  
 SP-08- 73 Kensuke Kawasaki (Shikoku Research Institute Inc.)  
 HV-08- 87 Takahito Iima (Shikoku Electric Power Co., Inc.)  
 PSE-08-173

**Power Generator and Apparatus**

- ED-08- 159 Very Short-Term Generating Power Forecasting for Wind Power Generator Based on Time  
 SA-08- 91 Series Analysis  
 SP-08- 74 Atsushi Yona, Tomonobu Senjyu (University of the Ryukyus),  
 HV-08- 88 ○Toshihisa Funabashi (Meidensha Corporation),  
 PSE-08-174 Chul-Hwan Kim (Sungkyunkwan University)
- ED-08- 160 Frequency Regulations by PV Generator Using Fuzzy Reasoning  
 SA-08- 92 Manoj Datta, Tomonobu Senjyu, Atsushi Yona (University of the Ryukyus),  
 SP-08- 75 ○Toshihisa Funabashi (Meidensha Corporation),  
 HV-08- 89 Chul-Hwan Kim (Sungkyunkwan University)  
 PSE-08-175
- ED-08- 161 Examination of Electromagnetic Inspection of Outer Side Defect on Steel Tube with Steel  
 SA-08- 93 Support Using 3D Nonlinear FEM  
 SP-08- 76 ○Yuji Gotoh, Atsushi Kiya (Oita University), Norio Takahashi (Okayama University)  
 HV-08- 90  
 PSE-08-176
- ED-08- 162 Investigation of Characteristic of MEMS Accelerometer for GCB Diagnosis Systems  
 SA-08- 94 ○Toshikazu Nagata, Katsuharu Iwamoto (Toshiba Corporation),  
 SP-08- 77 Shinya Kawachi, Katsuhiko Harada, Shinya Otsuka, Masayuki Hikita, Hisatoshi Ikeda  
 HV-08- 91 (Kyushu Institute of Technology)  
 PSE-08-177
- ED-08- 163 Detection and Propagation Properties of UHF band Electromagnetic Wave Emitted from PD  
 SA-08- 95 in Diagnostics of GIS  
 SP-08- 78 ○Masayuki Hikita, Shinya Ohtsuka, Hisatoshi Ikeda  
 HV-08- 92 (Kyushu Institute of Technology)  
 PSE-08-178
- ED-08- 164 Clarification of Internal Current Density Distribution and Self-magnetic Field Distribution of  
 SA-08- 96 Superconductors  
 SP-08- 79 ©Gaku Asanuma, Tsuginori Inaba (Chuo University)  
 HV-08- 93  
 PSE-08-179

ED-08- 165 Dynamic Reduction Effect of CO<sub>2</sub> Gas Discharge in Introducing Electric Motorcycles  
 SA-08- 97 ○Bin Liu, Tsuginori Inaba (Chuo University)  
 SP-08- 80  
 HV-08- 94  
 PSE-08-180

### **Thermal Plasma and Plasma Chemistry**

ED-08- 166 Expectation of Breakage Mechanism of Curved Wires Caused by Lightning Impulse Current  
 SA-08- 98 Xiaobo Hu (Chuo University), Josef Kindersberger(Muenchen Technology University),  
 SP-08- 81 ○Tsuginori Inaba (Chuo University)  
 HV-08- 95  
 PSE-08-181

ED-08- 167 Temperature Distribution Measurement of Ar Twin Torch Plasma Arc as Function of Current  
 SA-08- 99 and Torch Crossing Angle and Gas Flow Rate  
 SP-08- 82 ◎Tatsuya Yanagi, Tsuginori Inaba (Chuo University)  
 HV-08- 96  
 PSE-08-182

ED-08- 168 Simulation of Temperature Distribution and High Speed Dry Type Treatment for Neutralizing  
 SA-08- 100 Alkali Soil by Thermal Arc Plasma  
 SP-08- 83 ◎Hideki Yokoi, Mizuho Kikuchi, Tsuginori Inaba (Chuo University)  
 HV-08- 97  
 PSE-08-183

ED-08- 169 Heat Transfer of Pulsed Arc as a Function of Current Pulse Width Ratio  
 SA-08- 101 ◎Yusuke Morita, Toru Iwao, Motoshige Yumoto  
 SP-08- 84 (Musashi Institute of Technology)  
 HV-08- 98  
 PSE-08-184

ED-08- 170 Heat Transfer of Plasma Arc as Function of Arc Length  
 SA-08- 102 ◎Shohei Fujisawa, Toru Iwao, Motoshige Yumoto  
 SP-08- 85 (Musashi Institute of Technology)  
 HV-08- 99  
 PSE-08-185

ED-08- 171 Split Process of Low-Pressure Arc Cathode Spots on SS400 Surface with Oxide Layer  
 SA-08- 103 ◎Shinya Kamishima, Toru Iwao, Motoshige Yumoto  
 SP-08- 86 (Musashi Institute of Technology)  
 HV-08- 100  
 PSE-08-186

\* Time of Presentation: 25 minutes including Q&A session of 5 minutes