International Technical Meeting on Semiconductor Power Converter

[Chair] Takaharu Takeshita(Nagoya Institute of Technology)
[Co-chair] Tsuneo Ogura(Toshiba Semiconductor Co.)
[Organizers] Hideaki Fujita(Tokyo Institute of Technology)
Takeo Kanai (Toshiba-Mitsubishi Electric Industrial Systems Co.)
[Co-organizers] Keiji Wada(Tokyo Metropolitan University)
Keiichiro Kondo(Chiba University)
[Technical Meeting Organizers] Yasuyuki Nishida (Nihon University)
Junichi Itoh (Nagaoka University of Technology)

Date September 26 (Friday) 2008:13:00 to 17:05:
September 27 (Saturday) 2008: 09:00 to 12:40:

Venue Yujin Hotel (Daejon, Korea(Interim), One hour from Seoul or two hours from Pusan by KTX)

Sponsored by

Semiconductor Power Converter (SPC) Technical Committee

Industry Applications Society, IEE of Japan

Co-sponsored by

IEEE Industry Applications Society Japan Chapter

IEEE Power Electronics Society Japan Chapter

IEEE Industrial Electronics Society Japan Chapter

Subject: General semiconductor power converters

1st session September 26 (Friday): 13:00 to 17:05 (Including 20min. break)

SPC-08-115 A Novel Soft-Switching Phase-Shifted PWM Three-Level DC-DC Converter with Primary-Side Circulating Current Reduction Scheme

○Tomokazu Mishima(Kure College of Technology)
Sang Pil Mun(Kyungnam University)
Keiki Morimoto, Toshimitsu Doi(Daihen Corporation)
Mutsuo Nakaoka(Kyungnam University & Industrial College of Technology)

SPC-08-116 Accurate Model for Thermal Power Plant Using Inverter

○Nobumasa Matsui(Nagasaki University, MHI Control Systems Co. , Ltd.)
Fujio Kurokawa(Nagasaki University)

SPC-08-117 Soft-Switched PWM Series Load Resonant HF Direct Inverter with High Efficiency PFC Scheme for Consumer IH Cooking Heater

○Hisayuki Sugimura, Sang-Pil Mun, Soon-Kurl Kwon(Kyungam Univ.)
Shinichiro Sumiyoshi, Hideki Omori(Matsushita Electric Industrial)
Mutsuo Nakaoka(Kyungnam University & Industrial College of Technology)

SPC-08-118 Evaluation of Three-port Indirect Matrix Converter connected to the Neutral Point of Motor

○Goh Teck Chiang, Jun-ichi Itoh(Nagaoka University of Technology)

SPC-08-119 Induction Generator with Simple AC/AC Converter for Wind Power Generation

○Makoto Sonoda, Noriyuki Kimura, Morizane Toshimitsu, Katsunori Taniguchi
(Osaka Institute of Technology)

SPC-08-120 Power Electronics Applications in Microgrids and SmartGrids

○Toshihisa Funabashi(Meidensha Corporation)

SPC-08-121 A Non-isolating Type Single-phase AC Photovoltaic Module System Based on Power Pulsation Decoupling

○Mikihiko Matsui, Xiangdong Sun, Kouji Yanagimura(Tokyo Polytechnic University)
Byunggyu Yu(Korean Institute of Energy Research)

SPC-08-122 An Experimental Study on Parameter Variation on an Induction Motor Speed Sensor-less Control Method in Ultra Lower Speed Range.

○Hiroyuki Shibuya, Keiichiro Kondo, Yukihiko Sato(Chiba University)
Toshihiro Honma, Shinji Wakao(Waseda University)
Takemasa Furuya(Railway Technical Research Institute)

SPC-08-123 A Control Method of Parallel Power Processing type Uninterruptible Power Supply System Using Parallel Connected Bi-directional Converters.

○Satoru Fujita, Hisashi Fujimoto, Ryuji Yamada
(Fuji Electric Advanced Technology Co. Ltd.)

2nd session September 27 (Saturday): 09:00 to 12:40: (Including 20min. break)

SPC-08-124 Transient Oscillation Suppression of Input Filter Voltage and Current for Matrix Converters

○Takashi Sugiura, Takaharu Takeshita (Nagoya Institute of Technology)

SPC-08-125 Feasible Evaluations for High Performance Multi-Phase Trans-Linked Boost Chopper Circuit

○Masayoshi Yamamoto, Takahiro Kawashima, Shigeyuki Funabiki (Shimane University)

SPC-08-126 Discussion on High Efficient DC Power Management for Electric Vehicles

○Sho Inasaka, Atsuo Kawamura, Yukinori Tsuruta (Yokohama National University)

SPC-08-127 Evaluation and Analysis of Loss of Receiving Transformer Caused by Harmonics Current and Voltage

○Chiharu Sasaki, Hirohito Funato(Utsunomiya University)

SPC-08-128 A new robust control for the RF impedance matcher for plasma processing

○Yuki Hirose, Atsuo Kawamura(Yokohama National University)
Atsushi Takayanagi, Koichi Takada(Kyosan Electric Mfg. Co., Ltd.)

SPC-08-129 A Control Method of Smoothing Output Power in Wind Power System Using a Wound Rotor Induction Generator

○Takahiro Miyakawa(Kitakyushu National College of Technology)
Katsuji Shinohara, Kichiro Yamamoto, Minoru Ikeda, Hiromichi Hama (Kagoshima University)

SPC-08-130 Calculation of motor surge voltage under the use of a surge suppression cable

○Toshihisa Shimizu, Mikiya Saito(Tokyo Metropolitan University)
Masanori Nakamura(Oki Electric Cable Co., Ltd.)

SPC-08-131 Family of 3-Phase 24-Pulse Passive PFC with Combination of 12-Pulse Topology and Pulse-Doubling Auxiliary Circuit

Yasuyuki Nishida, ○Arnabha Datta(Nihon University)

SPC-08-132 Study on variable sampling quasi multi-rate deadbeat control for DC-DC converter

Fumitoshi Tabuchi, Tomoki Yokoyama(Tokyo Denki University)

SPC-08-124 Transient Oscillation Suppression of Input Filter Voltage and Current for Matrix Converters

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* The session program has not been finalized yet.

Presentation time: 25 minutes including discussion.

Technical Tour: September 26, 9:00-12:00, KIER, the Korean Institute of Energy Research
(Details to be informed later)

Banquet: Sept. 26 18:00-20:00 at Yujin Hotel (Details to be informed later)

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Please change ( ) for @.