

Date	Rm. #	Paper No.	Paper Title	Authors and Affiliations	Note) Name with * is a presetting author
May 25 (Wed.)	F204	SS-1: Power Electronics Component and System Technologies-1		Chair: Shinji Doki (Nagoya University)	
		20169001	Inverter Efficiency Improvement with Adaptive Switching Strategies	Laurent Beaudenaut*, Tomas Reiter, Stephan Cordes, Marcus Nuebling (Infineon Technologies AG)	
		20169002	A Loss Estimation Method of an Isolated Bi-Directional Three-Port DC-DC Converter Enabling DC 48 V and DC 12 V Subsystem for HV/EV Applications	Shuntaro Inoue*, Kenichi Itoh, Masanori Ishigaki, Takahide Sugiyama, Masaru Sugai (TOYOTA CENTRAL R&D LABS., INC.)	
		20169003	A Basic Study on Energy Management Strategy for Fuel Cell Hybrid Electric Vehicle	Yuto Aisaka*, Tatsuya Yamanaka, Noboru Katayama, Nobukazu Hoshi, Kosuke Uchida (Tokyo University of Science)	
		20169004	Integration of double side cooled power Module	Yoo Inpil* (Infineon Technologies) Lee Ki Seung (Infineon Technologies Korea Co. Ltd.)	
May 25 (Wed.)	F204	SS-2: Power Electronics Component and System Technologies-2		Chair: Dede Ercan (Toyota Research Institute of North America)	
		20169005	Study on a common-mode EMI model for an inverter	Akinori Okubo*, Yuichi Iwasaki, Kraisor Throngnumchai, Tetsuya Hayashi (Nissan Motor Co., Ltd.)	
		20169006	The development of small size DC-DC CONVERTER by using a heat-dissipation thick copper substrate.	Hitoshi Shimazu* (TOYOTA INDUSTRIES CORPORATION)	
		20169007	An Advanced IGBT Gate Drive Enabling Power Module Downsizing	Mathieu Grenier, Boris Bouchez, Luis de Sousa, Norbert Messi, José-Louis Da Costa (Valeo)	
		20169008	A Power Module Enabling Insulated Current Measurement	Jean-Michel Morelle* (Valeo Product Group Expertise), Fabien Guérin, Laurent Domenger (Valeo Powertrain Systems/Powertrain Electronics)	
20169009	Compensated Permanent Magnet Synchronous Generator for Power Generation in EV and HEV	Takanori Isobe*, Yosuke Yamada, Hiroshi Tadano (University of Tsukuba)			

Date	Rm. #	Paper No.	Paper Title	Authors and Affiliations	Note) Name with * is a presetting author	
May 25 (Wed.)	F204	SS-3: Power Electronics Component and System Technologies-3		Chair: Shigeharu Yamagami (NISSAN MOTOR CO., LTD.)		
		20169010	Development of Power-Module for Compact HV Inverter	Hajime Kosugi*, Shingo Iwasaki, Eiichiro Shigehara, Hirotaka Ohno (TOYOTA MOTOR CORPORATION), Toyokazu Tsunekawa (DENSO CORPORATION)		
		20169011	EPS System with ISO 26262 Compliance and Redundancy for Safety	Shinya Yoneki*, Tsutomu Matsumoto (JTEKT Corpoartion)		
		20169012	Experimental Verification of Improvement of Single-Event Burnout (SEB) Tolerance at Low Temperature for Super Junction Power MOSFET	Yusuke Kawaguchi*, Shunsuke Katoh, Eiji Shimada, Takayuki Yoshihira, Syotaro Ono, Hideyuki Ura, Gentaro Ookura, Wataru Saito (Toshiba Corporation Semiconductor & Storage Products Company)		
		20169013	The Paradigm Shift in Interconnect Technology - Smart p ² Pack [®]	Christian Roessle*, Thomas Gottwald (Schweizer Electronic AG)		
20169014	Modeling and Position Sensorless Control at Standstill/Low-speed Operation of the Wound-field Synchronous Motor with Double Three-phase Wound Stator for Integrated Starter Generator	Koji Imai*, Kang Li, Shinji Doki (Nagoya University), Jun Ishida (DENSO Corporation)				
May 25 (Wed.)	F205	RS-1: High Frequency Wireless Power Transfer		Chair: Hiroshi Tonomura (Volvo Group)		
		20169015	Design high power and high efficiency power source for dynamic wireless charging systems	Kien Trung Nguyen*, Kan Akatsu (Shibaura Institute of Technology)		
		20169016	Development of a wireless power transfer system for AGV	Yoshinori Tsuruda*, Masao Yokota, Akinobu Washida (Daihen Corporation)		
		20169017	Development of a Real-time Power and Impedance Sensor for Wireless Power Transfer Systems	Toshio Minami*, Isao Tabuchi, Ryohei Tanaka, Yoshinori Tsuruda (Daihen Corporation)		
20169018	Research on Wireless and Battery-less Sensors in a Car Engine Compartment with 900MHz Radio Wave	Tomohiko Mitani*, Hiroki Goto, Naoki Shinohara (Kyoto University)				

Date	Rm. #	Paper No.	Paper Title	Authors and Affiliations	Note) Name with * is a presetting author
May 25 (Wed.)	F205	SS-4: Health and Safety Considerations of Wireless Power Transfer		Chair: Takehiro Imura (The University of Tokyo)	
		20169019	The Future of Urban Mobility is Autonomous, Connected, Electric ... and Wireless	Kiyotaka Kawashima* (Qualcomm Japan KK)	
		20169020	Measurement and Analysis of Indoor Electromagnetic Field Leaked from EV-WPT System Installed at Outdoor Parking Area	Hironobu Watanabe*, Takashi Izumi, Tetsuya Kaneko, Hiroyuki Uno, Yutaka Saito (Panasonic System Networks R&D Lab. Co., Ltd.)	
		20169021	Study on the influence of the magnetic field and the induced electrical field in human bodies by wireless charging systems	Toshiaki Watanabe*, Masaya Ishida (TOYOTA Central R&D Labs., Inc.,)	
		20169022	Research on the Health Risk of Magnetic Fields Relating to Wireless Power Transfer for Electric Vehicles	Izumi Nishimura*, Kenichi Yamazaki, Takuya Nayuki (Central Research Institute of Electric Power Industry)	
		20169023	Assessment of Electromagnetic Interference Due to Wireless Power Transfer for Electric Vehicle on Active Implantable Medical Devices	Takashi Hikage*, Toshio Nojima (Hokkaido University), Hiroshi Fujimoto (Medtronic Japan Co., Ltd.)	
		20169024	Fresh Light on the Safety Guideline for 5.8GHz High Power Transfer Fresh Light on the Safety Guideline for 5.8GHz High Power Transfer	Hiroshi Tonomura* (Volvo Group), Shin Koyama, Eijiro Narita, Yong Huang, Junji Miyakoshi, Naoki Shinohara (Kyoto University)	
May 25 (Wed.)	F205	RS-2: Motion Control on EV/HEV		Chair: Jia-Sheng Hu (National University of Tainan)	
		20169025	Study of Vehicle Autonomous Collision Avoidance and Active Safety Control	Ming-Yen Chen*, Wen-Han Lu, Tse-Lin Lee, Jung-Ho Cheng (National Taiwan University), Yu-Yin Peng (Industrial Technology Research Institute)	
		20169026	Fundamental Study of Driving Force Distribution Method for Minimization of Maximum Slip Ratio for Electric Vehicles with In-wheel Motors	Naoto Shimoya*, Hiroshi Fujimoto (The University of Tokyo)	
		20169027	Simulation of Vehicle Collision Avoidance Control in Urban Environment	Chang-Yi Cheng*, Sin-Li Chen, Jia-Sheng Hu (National University of Tainan), Jinn-Feng Jiang, Tsu-Kun Chang, Hung-Yuan Wei (Metal Industries Research and Development Center)	
		20169028	Simulation and Modelling of Torque Vector Direct Yaw-Moment Control Strategies for Electric Vehicles	Philip Commins*, Sean McTrusty, Haiping Du (University of Wollongong)	
		20169029	Investigation of Longitudinal Wheel Slip Regulation for Vehicle Motion and Stability Control in Electric Vehicles with Individually Actuated In-Wheel Motors	Philip Commins*, Sean McTrusty, Haiping Du (University of Wollongong)	
		20169030	Motor-Generators and Engine Torque Control for the Mode Shift of a Dual Mode Power Split Hybrid Electric Vehicle	Wonseok Choi*, Sungwha Hong, Kyungkook Bae, Hyunsoo Kim (Sunkyunwan University)	

Date	Rm. #	Paper No.	Paper Title	Authors and Affiliations	Note) Name with * is a presetting author
May 25 (Wed.)	F206	SS-5: Energy Storage Devices		Chair: Chris Mi (San Diego State University)	
		20169031	Evaluation of fuel cell materials in membrane electrode assembly for automotive use	Yoshiyuki Hashimasa*, Hiroshi Daitoku, Tomoaki Numata (Japan Automobile Research Institute)	
		20169032	The Current Status and Future of the Capacitor for Automobile	Satoru Tsumeda*, Shotaro Kon, Shuichi Ishimoto, Kentaro Nakaaki, Kenji Tamamitsu (Nippon Chemi-Con Corporation)	
		20169033	Recent progress of Toshiba LTO-based SCiB™	Yuichi Satoh*, Shun Egusa (Toshiba Corporation)	
		20169046	An Evaluation Model of Battery Performance Change Based on Usage Scenario	Kenji Tanaka*, Nobuyuki Kitamura, Takuya Shimamoto (The University of Tokyo)	
May 25 (Wed.)	F206	RS-3: Energy Storage Systems and Applications		Chair: Kenji Natori (Chiba University)	
		20169035	Energy efficiency electric vehicles through the use of the Range Extender system in the climatic conditions of the Russian Federation.	Kirill Karpukhin*, Alexey Terenchenko, Sergey Bakhmutov (Federal State Unitary Enterprise Central Scientific Research Automobile and Automotive Institute "NAMI" (FSUE "NAMI"))	
		20169036	Performance Improvement of Existing Electric Motorcycles in Thailand by Modifying Battery from Lead Acid Battery to Li-ion Battery	Ruangjirakit K.*, Ratanarodcharoen S., Tuayharn K., Kaewtatip P., Laoonual Y., Tangamchit P. (King Mongkut's University of Technology Thonburi), Limthongkul P. (National Metal and Materials Technology Center)	
		20169037	A Study of Analyzing Battery Degradation of Electric Vehicles from the Log Data at Quick Charging	Takaharu Ishida* (Meisei University)	
		20169038	Analysis of the relationship between actual use conditions of electric vehicles and battery performance degradation in the real world	Yasumasa Maeda*, Akihiro Kurokawa, Kenji Morita, Daichi Imamura (Japan Automobile Research Institute)	
		20169040	Proposal of Capacity Deterioration Model of Li-ion Batteries Based on the Electro-magnetic Theory	Atsuo Hatono* (Malaysia-Japan Higher Education Program, University Kuala Lumpur)	

Date	Rm. #	Paper No.	Paper Title	Authors and Affiliations	Note) Name with * is a presetting author
May 25 (Wed.)	F206	SS-6: Application of Energy Storage Devices		Chair: Keiichiro Kondo (Chiba University)	
		20169041	Application of Energy Storage System to Automobiles	Takaji Umeno* (Toyota Central R&D Labs., INC.) Masaki Okamura (Toyota Motor Corporation)	
		20169042	The electric energy management of low-voltage regenerative energy system	Akitomo Kume*, Kazuya Kotani (Mazda Motor Corporation)	
		20169043	Development of New Hybrid City Bus	Hirohisa Kitakaze*, Satoshi Uemura, Akira Sawayama, Atsushi Ohshima, Toshiaki Osaki, Hideki Okuno (Hino Motors, Ltd.)	
		20169044	Investigation of Battery Lifetime for Hybrid Traction System of Hybrid DMU Series Ki-Ha E200	Naoki Shiraki*, Youichi Kouno (East Japan Railway Company)	
20169045	SOC and parameter estimation for HEV/EV batteries	Atsushi Baba*, Kinnosuke Itabashi, Nozomu Teranishi, Yoshihiro Edamoto, Kensuke Osamura (Calsonic Kansei Corporation), Ichiro Maruta (Kyoto University), Shuichi Adachi (Keio University)			