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(WoW 2015)

Daejeon, South Korea
5-6 June 2015
### Session 1: Wireless Powers for Electric Vehicles I
**June 5, 2015 13:20 - 15:00**

**Session Chairs:** Hyosung Kim, *Kongju University, Korea*
Xin Dai, *Chongqing University, China*

#### Real-time Coupling Coefficient Estimation and Maximum Efficiency Control on Dynamic Wireless Power Transfer for Electric Vehicles
Daita Kobayashi, *The University of Tokyo, Japan*
Takehiro Imura, *The University of Tokyo, Japan*
Yoichi Hori, *The University of Tokyo, Japan*

**DQ-Quadrature Power Supply Coil Sets with Large Tolerances for Wireless Stationary EV Chargers**
Seog Y. Jeong, *KAIST, Korea*
Su Y. Choi, *KAIST, Korea*
Sonapreetha Mohan Radha, *KAIST, Korea*
Chun T. Rim, *KAIST, Korea*

#### A Wireless Vehicle Charging System using Class Φ2 Inverter
Mohammad Kamar Uddin, *University of Malaya, Malaysia*
Kafeel Ahmed Kalwar, *University of Malaya, Malaysia*
Gobbi Ramasamy, *Multimedia University, Malaysia*
Saad Mekhilef, *University of Malaya, Malaysia*

#### Research of the Input-Parallel Output-Series Inductive Power Transfer System
Hang Liu, *Nanjing University of Aeronautics and Astronautics, China*
Qianhong Chen, *Nanjing University of Aeronautics and Astronautics, China*
Guangjie Ke, *Nanjing University of Aeronautics and Astronautics, China*
Siu-Chung Wong, *Hong Kong Polytechnic University, Hong Kong*
Xiaoyong Ren, *Nanjing University of Aeronautics and Astronautics, China*

**Dual-purpose Non-overlapped Coil Sets as Foreign Object and Vehicle Location Detections for Wireless Stationary EV Chargers**
Sonapreetha Mohan Radha, *KAIST, Korea*
Seog Y. Jeong, *KAIST, Korea*
Su Y. Choi, *KAIST, Korea*
Chun T. Rim, *KAIST, Korea*

### Session 2: Wireless Powers for Electric Vehicles II
**June 5, 2015 13:20 - 15:00**

**Session Chairs:** Hanju Cha, *Chungnam National University, Korea*
Kai Song, *Harbin Institute of Technology, China*

#### Economic Considerations for On-Road Wireless Charging Systems - A Case Study
Aditya Shekhar, *Delft University of Technology, Netherlands*
Mark Bolech, *Delft University of Technology, Netherlands*
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Session Chairs: Jeehoon Jung, Ulsan National Institute of Science and Technology, Korea
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Xinzhi Shi, Wuhan University, China
Chang Qi, Wuhan University, China
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Session Chairs: Gyubeom Jung, Woosuk University, Korea
Siqi Li, Kunming University of Science and Technology, China

A Method of Regulating Wireless Power Transfer Based on the Analysis of Power Communication
Ngan K. Hoang, KAIST, Korea
Sang-Gug Lee, KAIST, Korea

Analysis and Equivalent of Four-coil and Two-Coil Systems in Wireless Power Transfer
Zhe Liu, Kunming University of Science and Technology, China
Han Zhao, Kunming University of Science and Technology, China
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Siqi Li, Kunming University of Science and Technology, China

Analytical Investigation of Optimal Wireless Power Transfer Topology for Electric Vehicles
Sangyeong Jeong, Ulsan National Institute of Science and Technology, Korea
Jeehoon Jung, Ulsan National Institute of Science and Technology, Korea
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Review of Analytical Methods to Extract Magnetic Parameters of an Inductively Coupled Circuit
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Pavol Bauer, Delft University of Technology, Netherlands
Jan A. Ferreira, Delft University of Technology, Netherlands
Henk Polinder, Delft University of Technology, Netherlands

Theoretical Modeling and Analysis of a Wireless Ultrasonic Power Transfer System
Ho Fai Leung, The University of Auckland, New Zealand
Aiguo Patrick Hu, The University of Auckland, New Zealand

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Session Chairs: YongSeok Seo, Chonbuk National University, Korea
HanhPhuc Le, Lion Semiconductor Inc., United States

A Compact Class E Rectifier for Megahertz Wireless Power Transfer
Ming Liu, University of Michigan-Shanghai Jiao Tong University Joint Institute, China
Minfan Fu, University of Michigan-Shanghai Jiao Tong University Joint Institute, China
Chengbin Ma, University of Michigan-Shanghai Jiao Tong University Joint Institute, China
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Jianlong Tian, The University of Auckland, New Zealand
Aiguo Patrick Hu, The University of Auckland, New Zealand

Research on Driving Source of Wireless Power Transfer under Weak Coupling Condition

Li Yang, Harbin Institute of Technology, China
Zhu Chunbo, Harbin Institute of Technology, China
Wei Guo, Harbin Institute of Technology, China
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Mina Kim, Ulsan National Institute of Science and Technology, Korea
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Jingook Kim, Ulsan National Institute of Science and Technology, Korea
Jeehoon Jung, Ulsan National Institute of Science and Technology, Korea

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Li Yong, Southwest Jiaotong University, China
Ma Ruikun, Southwest Jiaotong University, China
Lu liwen, Southwest Jiaotong University, China
Liu Shaoqing, CSR Qingdao Sifang Co. Ltd, China
He Zhengyou, Southwest Jiaotong University, China

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Session Chairs: Byoungkuk Lee, SungKyunKwan University, Korea
Chi Kwan Lee, The University of Hong Kong, Hong Kong

Improved LCL Resonant Network for Inductive Power Transfer System

Xin Dai, Chongqing University, China
Weiyi Li, Chongqing University, China
Yanling Li, Chongqing University, China
Su Yugang, Chongqing University, China
Tang Chunsen, Chongqing University, China
Wang Zhihui, Chongqing University, China
Sun Yue, Chongqing University, China

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Christopher H. Kwan, Imperial College London, United Kingdom
George Kkelis, Imperial College London, United Kingdom
Samer Aldhaher, Imperial College London, United Kingdom
James Lawson, Imperial College London, United Kingdom
David C. Yates, Imperial College London, United Kingdom
Patrick Chi-Kwong LUK, Intelligent Grid Interfaced Vehicle Eco-charging, United Kingdom
Paul D. Mitcheson, Imperial College London, United Kingdom

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Xinen Zhu, University of Michigan-Shanghai Jiao Tong University Joint Institute, China

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Gao Shiping, CSR Qingdao Sifang Co. Ltd., China
Yu Jin, CSR Qingdao Sifang Co. Ltd., China
He Zhengyou, Southwest Jiaotong University, China

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Giuseppe Guidi, SINTEF Energy Research, Norway
Jon Are Suul, Norwegian University, Norway

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Pablo Aqueveque, University of Concepcion, Chile
Juliano Barboza, University of Concepcion, Chile

Wireless Power Transmission An Assessment of Technology Potential and Risk
Krish Gomatom, Electric Power Research Institute, United States
Stephen Berger, TEM Consulting, United States