

# Proposal for a Special Session at the 2017 IEEE Symposium on Computational Intelligence in Vehicles and Transportation Systems (CIVTS'2017)

Special Session Title: “Electric vehicle wired/wireless charging and management”

Theme and Scope of this Session:

The scope of this session includes the wireless power transfer system design for electric vehicle, charging test, fault diagnosis and monitoring methodologies, charger circuit analysis, V2G technology, intelligent charging management strategies, and so on.

List of main topics:

- Topology/coil design for wireless power transfer system
- EV charging test, fault diagnosis and monitoring
- Circuit analysis scheme for EV wired/wireless charger
- V2G technology
- Intelligent charging management system

Organisers / Chairs:

Prof. Xi Zhang (main contact, email: braver1980@sjtu.edu.cn)

Xi Zhang received his Bachelor, Master and PhD degrees from Shanghai Jiao Tong University, Shanghai, China, in 2002, 2004 and 2007, respectively. He joined the University of Michigan-Dearborn, USA, as a post-doctoral researcher in 2007. He is now an associate professor at School of Mechanical Engineering, Shanghai Jiao Tong University. His research interests include electric vehicle wired/wireless charging, power management, battery modeling/management, and so on. He has published three books and over 60 research papers, and meanwhile owns 13 invention patents. He won the Shanghai Municipal S&T Progress Second Prized in 2015 and China Industry-University-Institute Collaboration Promotion Prize (Individual) in 2016, respectively. He was Session Chair of 2016 FISITA World Congress and General Chair of 2015 Sino-German EV Energy Efficiency and Driving Safety Coordination Technology Forum. He is now an IEEE senior member and China Power Supply Society (CPSS) Special Committee Member.

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Yafei Wang is a Lecturer in Automotive Engineering of Shanghai Jiao Tong University, China. He received the B.Sc. degree from Jilin University, China, in 2005, the M.Sc. degree from Shanghai Jiao Tong University, China, in 2008, and the Ph.D. degree from the University of Tokyo, in 2013. He worked as an engineer in Delphi China from 2008 to 2009. He was a postdoctoral fellow in the University of Tokyo from 2013 to 2016. His research interests include intelligent vehicle multi-sensor information fusion, decision making, intelligent charging management for electric vehicles, and so on.

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