

## Special Issue

# Advanced Wireless Charging Technologies for Intelligent Transportation Systems

### Message from the Guest Editors

This Special Issue of *Vehicles*, entitled “Advanced Wireless Charging Technologies for Intelligent Transportation Systems”, invites original research articles, comprehensive reviews, and practical case studies.

Topics of interest may include, but are not limited to, the following:

- Static and dynamic WPT systems for road and off-road vehicles;

- Innovative coil and pad designs, metamaterials, compensation topologies, and shielding techniques for enhanced coupling;

- Control strategies and communication protocols for power-data co-transfer and adaptive tuning;

- Electromagnetic compatibility, thermal management, and safety certification;

- Bidirectional (vehicle-to-grid and vehicle-to-vehicle) energy exchange;

- Standardized testing methodologies, performance benchmarks, and interoperability frameworks;

- Lifecycle assessment, economic analysis, and sustainability metrics;

- Pilot deployments, infrastructure planning, and real-world performance evaluations.

We look forward to receiving your high-quality submissions that will push the boundaries of wireless charging in ITS and accelerate the transition to a cleaner, smarter future in mobility.

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### Guest Editors

Dr. Xiaofei Li

School of Automation, Chongqing University, Chongqing 400044, China

Dr. Heshou Wang

Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China



## Vehicles

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*Vehicles*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[vehicles@mdpi.com](mailto:vehicles@mdpi.com)

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Prof. Dr. Mohammed Chadli

Department UFR Sciences and Technologies, Université Paris-Saclay,  
91020 Evry, France

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