Special Issue

Intelligent Wireless Power Transfer System and Its Application

Message from the Guest Editors

WPT technology will be widely used in the future because it permits the transmission of electrical energy from a power source to an electrical load across an air gap without the use of wires. This makes WPT safer, cheaper and more comfortable than conventional wired methods. The vision for the future of power supply is the gradual replacement of wire links with wireless connections. WPT technology based on inductively coupled (resonant or non-resonant) coils is under investigation and development for a very wide range of applications in electric vehicles, drones, medical devices, consumer electronics, sensors, IoT, etc. This Special Issue is focused on algorithms, models, methods, technologies and applications that permit an improvement on the reliability and performance of intelligent WPT systems for fixed and mobile applications. Potential topics include, but are not limited to, intelligent techniques for automatic alignment of coils, re-tuning, smart compensation, range adaptation, multicoil design, soft switching, frequency selection, load matching, EMC and EMF safety issues.

Guest Editors

Prof. Dr. Mauro Feliziani

Dr. Tommaso Campi

Dr. Silvano Cruciani

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Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

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