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Intelligent Wireless Power Transfer System and Its Application

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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.



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Special Issue



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Message from the Editor-in-Chief

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