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# **Design and Applications of Wireless Power Charging Systems**

Guest Editors:

#### Dr. Janis Zakis

Institute of Industrial Electronics and Electrical Engineering, Riga Technical University, 1048 Riga, Latvia

#### **Dr. Deniss Stepins**

Institute of Industrial Electronics and Electrical Engineering, Riga Technical University, 1658 Riga, Latvia

#### Dr. Alon Kuperman

Applied Energy Laboratory, School of Electrical and Computer Engineering, Ben-Gurion University of the Negev, Beer-Sheva 84105, Israel

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### **Message from the Guest Editors**

Dear Colleagues,

Wireless charging can provide both a high reliability and convenience regarding the charging process because it does not cause sparking or short circuits, and the precise positioning of a receiving device is not necessary. Wireless charging can offer one more additional feature—dynamic power transfer that can charge the batteries of objects (e.g., electric vehicles) while moving.

This Special Issue focuses on original research papers regarding the design and application of high-efficiency, inductive and capacitive charging systems. Review articles on the design and applications of wireless charging systems are also welcome. Potential research topics include, but are not limited to:

- The modeling and design of high-efficiency and high-power-density inductive and capacitive wireless charging systems;
- Applications of wireless charging systems;
- The dynamic wireless charging of electrical vehicle batteries;
- Design issues with wireless chargers operating in the MHz range.

Dr. Janis Zakis Dr. Deniss Stepins Prof. Dr. Alon Kuperman *Guest Editors* 







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# **Editor-in-Chief**

#### Prof. Dr. Flavio Canavero

Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

### Message from the Editor-in-Chief

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