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High Power Electric Traction Systems

Guest Editors:

Prof. Dr. Kyo-Beum Lee
Department of Electrical and Computer Engineering, Ajou University, World cup-row 206, Yeongtong-gu, Suwon 16499, Korea

Dr. June-Seok Lee
School of Electronics and Electrical Engineering, Dankook University, Yongin 16890, Gyeonggi-do, Republic of Korea

Deadline for manuscript submissions:
closed (30 June 2020)

Message from the Guest Editors

Miniaturization, lightening of weight, and high reliability of traction systems are required for energy saving, running distance improvement, and lifetime extension. New switching devices (Silicon Carbide), the permanent magnet synchronous motor (PMSM), and new power converter/inverter topologies with high-efficiency control schemes have contributed to achieve the needs. This Special Issue focuses on the analysis, design, and implementation of high-power electric traction systems for miniaturization, lightening of weight, and high reliability.

Topics of interest for this Special Issue include, but are not limited to:

- Control of traction inverter
- Motor drive schemes for traction system
- New topology for high-power traction system
- Reliability of traction systems
- High voltage silicon carbide (SiC)
- Battery or hydrogen-powered traction systems
- Tolerant control of traction system under faults

Welcome to contribute!

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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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Journal Rank: JCR - Q2 (Engineering, Electrical and Electronic) / CiteScore - Q1 (Electrical and Electronic Engineering)

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Electronics Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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