Special Issue

High Power Electric Traction Systems

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!

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

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

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Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

Editor-in-Chief

Prof. Dr. Flavio Canavero
Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

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