



High Power Electric Traction Systems

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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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Message from the Editor-in-Chief

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