

Special Issue

High-Performance Electric Drives for Transport Applications (High-Speed Machines, High Pole Number Machines, High Frequency Machines)

Message from the Guest Editors

With the ever-growing development of electric-drive-based transport, high-performance electric drives are being driven to unprecedented performance metrics, including the achievement of high torque (power) density and high efficiencies over a wide speed range, together with ensuring reliable operation over their lifetime.

Numerous novel electrical machines and control strategies are emerging to address these challenges. In this Special Issue, contributions on high-performance electric drives for transport applications are welcome, including machine topologies (such as high-speed machines, high pole number machines, high frequency machines), control strategies, power converter topologies, performance analysis, multidomain design optimisation, thermal improvement techniques, component light-weighting, reliability, etc. **Keywords:**

- High speed
- High pole number
- High frequency
- Additive manufacturing
- Cooling techniques
- Materials
- Reliability
- Transport

Welcome to contribute!

Guest Editors

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Deadline for manuscript submissions

closed (20 June 2022)



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About the Journal

Message from the Editor-in-Chief

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

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