

Special Issue

Power Electronics and Control of High-Speed Electrical Drives

Message from the Guest Editors

Interest in high-speed machines electrical drives has increased in recent years, together with the need to increase the speed of electrical machines characterized by a high number of pole pair thanks to the use of different flux-weakening techniques. We find applications of these drives in the distribution grid of the more electric aircraft, in high-speed actuators, in electric turbochargers for internal combustion engines, in direct-drive large generators for wind energy conversion systems, in high-performance electric drives for the industrial and robotics fields, and so on.

Keywords:

- High-speed electrical drives
- Flux-weakening strategies
- Wide band-gap devices
- Power converter topologies
- Multilevel topologies
- Soft switching techniques
- Current control
- High pole pair machines
- Common-mode current
- Bearing current

Welcome to contribute!

Guest Editors

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Deadline for manuscript submissions

closed (31 December 2021)



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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 guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

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