



## Power Electronics and Control of High-Speed Electrical Drives

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### 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!

