# **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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*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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