

## Special Issue

# Power Electronics in Automotive Industry Applications

### Message from the Guest Editors

The main aim of this Special Issue is to seek high-quality submissions that highlight emerging applications, address recent breakthroughs of the Power Electronics technology in Automotive Industry and Electric Vehicle Applications -oriented design, high-power density power converters, robust and reliable power electronics technologies, smart control of power electronics at device, and system levels. The topics of interest include, but are not limited to:

- Power electronics application in electric vehicles, electrical drives, electrical charging system and rechargeable energy storage system
- Application of power electronics in smart DC and AC distribution systems
- High power density power electronic systems
- Electromagnetic compatibility (EMC)
- Common mode voltage/current
- Power Converter design (Inverter, Multilevel Inverter, DC-DC converter, Onboard charger, Integrated power converter, air compressor, lighting and etc.)
- Power Converter control
- Condition monitoring, prognostic and diagnostic of power electronics with enhanced control for reliable and robust applications

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### Guest Editors

Dr. Emad Samadaei  
Dr. Edris Pouresmaeil  
Prof. Dr. Kent Bertilsson  
Dr. Hani Vahedi

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### Deadline for manuscript submissions

closed (31 March 2022)



## Electronics

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Impact Factor 2.6  
CiteScore 6.1



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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.

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### Editor-in-Chief

Prof. Dr. Flavio Canavero

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### Author Benefits

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, Inspec, Ei Compendex and other databases.

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#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.4 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).