

## Special Issue

# Electric Vehicle Powertrains: Design, Development and Technology

### Message from the Guest Editors

This Special Issue will accept contributions describing innovative research and developments in “Electric Vehicle Powertrains: Design, Development, and Technology”. It will cover a wide range of disciplines, including techniques of key components in EV powertrains, EV powertrain system integration, vehicle-to-grid techniques, energy storage and conversion techniques, power electronics and power semiconductors, etc. All the methodologies and techniques related to the EV powertrain are welcome. The proposed Special Issue particularly fits the following topics within the scope of MDPI’s *Machines* journal:

- Advanced design and control of electric machines;
- Energy storage and conversion techniques;
- Design and development of electric vehicle powertrains;
- Vehicle-to-grid and smart grid techniques;
- Power electronics and power semiconductors;
- Power systems, simulation, and optimization;
- Fault diagnosis and tolerance of power systems;
- Automatic pilots related technologies in EV powertrain developments.

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### Guest Editors

Dr. Tianfu Sun

Prof. Dr. Xin Zhang

Prof. Dr. Weinong Fu

Prof. Dr. Kai Wang

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### Deadline for manuscript submissions

closed (30 June 2022)



## Machines

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## About the Journal

### Message from the Editor-in-Chief

*Machines* is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided. There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

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### Editor-in-Chief

Prof. Dr. Antonio J. Marques Cardoso  
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### Author Benefits

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Mechanical) / CiteScore - Q1  
(Control and Optimization)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.9 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).