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# Innovative Cooling and Thermal Management Solutions for Electrical Machines

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### Message from the Guest Editor

Efficient cooling and thermal management solutions can regulate internal temperature and ensure optimal output efficiency, reliability, and service life. Currently employed in practical applications are primarily air and liquid cooling methods for cooling electrical machines. However, it is foreseeable that these single-phase heat transfer technologies will struggle to meet the increasing heat dissipation demands of electrical machines. Leveraging phase change heat transfer technologies involving vaporliquid and solid-liquid transformations offer a promising solution for designing and developing new cooling structures and systems.

This Special Issue aims to present recent advances and technologies in the field of cooling and thermal management solutions for electrical machines. Topics include, but are not limited to:

- Electrical machines;
- Cooling and thermal management;
- Output efficiency and reliability;
- Single-phase heat transfer;
- Two-phase heat transfer;
- Heat transfer enhancement;
- Design and optimization;
- Artificial intelligence;
- Industrial applications.





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### Message from the Editor-in-Chief

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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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