Special Issue

Advances in Permanent Magnet Machines and Drive Systems: Design Innovation, Dynamic Modeling, and Performance Enhancement

Message from the Guest Editor

Permanent magnet (PM) machines and their associated drive systems have become key enabling technologies in modern electrification, powering applications ranging from electric vehicles and aircraft to renewable energy systems and industrial automation. As demands for higher efficiency, greater power density, improved reliability, and advanced control continue to rise, significant breakthroughs are being achieved in PM machine design, multi-physics modeling, material utilization, and intelligent drive strategies. This Special Issue aims to provide a comprehensive platform for reporting the latest research, emerging concepts, and technological innovations in the field of PM machines and drives. By bringing together both fundamental research and application-driven developments, this collection seeks to foster interdisciplinary insights and accelerate the advancement of next-generation PM machines and drive systems.

Guest Editor

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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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