

Special Issue

Analysis, Control and Design of Permanent Magnet Machines

Message from the Guest Editor

Permanent magnets have been around since ancient times, naturally occurring in lodestones. It was not until the eighteenth century that artificial magnets were developed using magnetizing steel. In the 20th century, significant progress was made in the development of permanent magnets, first Alnico (1930s), then ferrite, then Samarium–Cobalt (1970s), and then Neodymium–Iron–Boron magnets (NdFeB) in the 1980s. NdFeB was a breakthrough in magnet technology, providing significantly stronger magnets which enabled their application in higher-power motors and generators. Due to their high efficiency operations and compactness, there has been significant research conducted on these machines. This Special Issue will be devoted to the latest research and developments in permanent magnet machines (both motors and generators). We seek submissions related to the design, analysis, modeling, and control of such permanent magnet machines. Manuscripts with real experiments are encouraged.

Guest Editor

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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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