

Special Issue

Robust Control of Permanent Magnet Synchronous Motors (PMSM) and Induction Motors (IM)

Message from the Guest Editor

Machines opened this Special Issue which covers the novel methods and technologies of the Robust Control of Permanent Magnet Synchronous Motors (PMSM) and Induction Motors (IM), and we invite you to contribute.

Proposals are expected to deal with the characteristics of these motors, their drives, and moved mechanisms, which have nonlinear behavior, uncertainties, and disturbances.

This Special Issue covers, but is not limited to, the following:

- Nonlinear control, variable observers, and parameter estimators applied to the PMSM and IM, including their drivers and applications.
- Monitoring and controlling these electrical machines for energy saving, operation supervision, maintenance planning, position tracking, and speed regulation.

All of these topics may consider different techniques, such as predictive control, H-infinite control, sliding mode control (SMC), passivity-based control, adaptive systems, predictive control, and artificial neural networks.

Guest Editor

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Deadline for manuscript submissions

closed (31 October 2024)



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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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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).