

Special Issue

Noise and Vibrations of Electrical Machines

Message from the Guest Editor

The vibration and noise issues in electrical machines have been concerns for a long time, and they are still arousing interests in many applications such as electrified transportation, industrial drives, household appliances, etc., whereas the generation mechanisms and suppression methods are still complicated for machine designers and manufacturers. As is well-known, the noise and vibration in electrical machines is mainly induced by the electromagnetic (EM) force, and plenty of research papers have been focused on this aspect, especially on the radial EM force. However, recent publications show that the influences of structure geometry modulation, manufacturing errors, current harmonics from the inverter, etc., are considerable. This Special Issue is set for the exchange of new ideas in the area of vibration and noise problems in electrical machines, aiming to improve the understanding of its generation mechanism and inspiring new solutions for quiet machines.

Guest Editor

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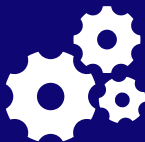


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Machines is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail 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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