



Noise and Vibrations of Electrical Machines

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Message from the Guest Editor

Dear Colleagues,

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.

Dr. Haiyang Fang
Guest Editor





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Message from the Editor-in-Chief

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