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Low-Speed Sensorless Control of Electrical Machine Drives

Guest Editor:

Prof. Dr. Cyril Spiteri Staines

Industrial Electrical Power
Conversion, Faculty of
Engineering, University of Malta,
MSD 2080 Msida, Malta

Deadline for manuscript
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closed (31 October 2021)

Message from the Guest Editor

Dear Colleagues,

The sensorless control of electrical machines, especially in the low-speed region, has gained a lot of importance over the years. The initial sensorless techniques were model-based, following this, for low- and zero-speed operation, saliency tracking techniques were introduced. Such saliency tracking for speed and position estimation can be carried out by various methods, some which use additional frequency injection and others which analyse in real time the saliency dependent currents resulting from inherent PWM switching frequencies.

The topics of interest for publication include, but are not limited to:

- Techniques using additional signal injection for sensorless position and speed estimation;
- Application of PWM switching for sensorless position and speed estimation;
- Electrical machine design for sensorless control;
- Industrial applications of sensorless control in electric drives;
- Self-commissioning electric drives;
- Application of sensorless techniques for condition monitoring in electric machines;
- High-performance sensorless control techniques.



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Special Issue



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Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and
Aerospace Engineering,
University of Roma Sapienza, Via
Eudossiana 18, 00184 Roma, Italy

Message from the Editor-in-Chief

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Energies Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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