

Call for Papers

Special Section on Novel Permanent Magnet and Magnetless Machines and Controls

Due to high torque density and efficiency, permanent magnet machines have been used for many applications, ranging from domestic appliance, industrial automation, robot, electric vehicle, to wind power generation etc. Various novel permanent magnet machine topologies have been developed and many new topologies are still emerging, whilst many novel control strategies are being developed. On the other hand, magnetless machines, including induction, switched and synchronous reluctance, and wound-field synchronous machines, can eliminate the use of expensive rare-earth magnets and their design, analysis and control are currently under extensive investigation.

This Special Section aims to provide a forum for professionals from both academia and industry all over the world to exchange their experience and achievements within the scope of machine topology, design, analysis, control and applications of permanent magnet and magnetless machines. Detailed topics include but are not limited to:

- Novel rotary and linear machine topologies
- Magnetic field analysis
- Machine optimal design
- Machine performance analysis
- Machine parameter identification
- Novel vector and direct torque control strategies
- Sensorless control
- New applications

Contact the deputy editor-in-chief if your manuscript is not within the listed topics, as papers within the general topic of electrical machines and systems are all welcome by the CES TEMS.

Brief guideline for authors:

Papers styles:

1. Review articles.
2. Original research.
3. Rapid communications.

All submitted papers must be in English, must not be published by or currently under review for any other journal or conference.

Detailed submission guideline and template are available at the submission website. All manuscripts and any supplementary materials should be submitted via the site <https://mc03.manuscriptcentral.com/tems>, choosing "**SS: Novel Permanent Magnet and Magnetless Machines and Controls**" as the manuscript type.

About the journal

The CES TEMS is a brand-new quarterly journal published by the China Electrotechnical Society (CES) and the Institute of Electrical Engineering of the Chinese Academy of Sciences, with co-sponsorship of IEEE PELS, starting from March 2017.

Topics of the CES TEMS include but are not limited to electrical machine topologies and designs, field analysis, motor drives, motion control and servo systems, power electronics and power converters, EMI and EMC techniques, renewable energies, xEV and other electrified transportation techniques, applications of new materials, and many others related to the electrical machines and systems.

The CES TEMS is an open-access journal, currently with no publication charge applied to the authors. Published papers will be included in the IEEE Xplore. Inclusion in other globally recognized database such as the Web of Science (SCI) is under arrangement.

www.cestems.org



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