

Call for Papers

Special Section on Electrical Machines and Systems in New Energy Applications

Controlling carbon emissions to achieve green and sustainable development has become a global consensus and general trend. China has established “30.60” decarbonization goal for carbon peak and carbon neutrality. As electromechanical energy conversion devices, the electrical machines and systems play important roles in both renewable energy harvesting, such as wind, tidal, ocean current energy, etc., and new energy drive, such as electric vehicle, more electric aircraft, and more electric ship, etc. However, the improvement of their power density, efficiency, and reliability faces many new challenges in the background of new energy applications. How to further improve these performances from the aspects of novel topologies, intelligent optimization method, advanced control strategy, online fault diagnosis and health management, etc., becomes a key issue to promote applications of electrical machines and systems in the new energy area.

In order to further strengthen academic exchanges, and promote the exchange of experiences and latest achievements in the topology, analysis, design, control, operation and maintenance of electrical machine and system in new energy applications among researchers and experts from both academia and industry all over the world, the editorial department of "Transactions of China Electrotechnical Society" and "CES TEMS" specially invited Professor Lijian Wu from Zhejiang University as the Deputy Editor in Chief organizing the topic of "Electrical Machines and Systems in New Energy Applications". Detailed topics include but are not limited to:

- New topologies
- Modeling and simulation technique
- Design and optimization method
- High-performance control strategy
- Grid forming control technology of renewable generator systems
- Vibration and noise analysis
- Thermal management
- Fault diagnosis and fault-tolerant control
- Intelligent state perception and reliability evaluation
- Health management method
- Application of new materials, new devices and new processes
- Application of artificial intelligence
- Other related topics of electrical machine and control system for new energy applications

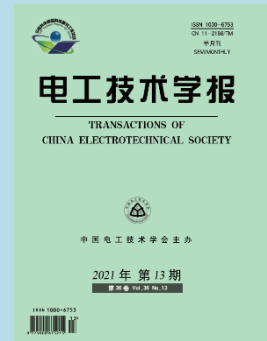
Contact the deputy editor-in-chief if your manuscript is not within the listed topics, as papers within the general topic of electrical machines and systems are all welcome by the CES TEMS and Transactions of China Electrotechnical Society.

Brief guideline for authors:

Papers styles:

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

All manuscripts must be submitted through Manuscript Central at <http://www.ces-transaction.com/> (Transactions of China Electrotechnical Society), and <https://mc03.manuscriptcentral.com/tems> (CES TEMS), Submissions must be clearly marked “**Electrical Machines and Systems in New Energy Applications**” on the cover page. When uploading your paper, please select your manuscript type “Special Issue.” Refer to <http://www.ces-transaction.com/> and <http://www.cestems.org> for general information about electronic submission through Manuscript Central. Manuscripts submitted for the special issue will be reviewed separately and will be handled by the guest editorial board noted below.



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About the journal

Transactions of China Electrotechnical Society

“Transactions of China Electrotechnical Society” was founded in 1986. “Journal” is a comprehensive academic journal in the field of electrical engineering hosted by China Electrotechnical Society.

“Journal” is the core journal of many principal retrieval systems such as Engineering Index (EI), Chinese core journals, The key magazine of China technology as well as other related databases.

“Journal” comprehensively reports high-level academic and scientific research achievements in basic theory research and engineering application in the field of electrical engineering. The publication covers various disciplines in the field of electrical engineering, mainly related to electrical appliances, power electronics, power systems, industrial automation, electrical theory, electrical insulation, materials, information technology, and new energy technologies.

www.ces-transaction.com



CES TEMS

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.

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. Also, CES TEMS has been Indexed by CSCD. Inclusion in other globally recognized data base such as the Web of Science (SCI) is under arrangement.

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Important Dates

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