

Special Issue

Control, Diagnostics and Protection for Electrical Machines, Power Electronics and Drives

Message from the Guest Editors

The modern era of electrification and energy efficiency relies heavily on advanced power conversion systems, including electrical machines, power electronics and drives. These technologies form the backbone of industrial automation, power generation, renewable energy integration, transportation electrification, and more. However, as their adoption increases, so too do challenges in ensuring optimal performance, reliability and fault tolerance. This Special Issue focuses on recent advancements in control strategies, diagnostic and protection methods for electrical machines, power electronics and drives. Contributions to this collection will address state-of-the-art research on robust control techniques, including adaptive, predictive, and intelligent control strategies for electrical machines and drives. Papers are also invited on innovative diagnostic tools for condition monitoring, fault detection, protection mechanisms and predictive maintenance. The role of electronics in ensuring system reliability and safety will be a key focus, particularly in the development of protection strategies that can respond dynamically to system anomalies.

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About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

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