

Special Issue

Reliability and Resilience of Electric Power Infrastructures

Message from the Guest Editors

This Special Issue is dedicated to advancing the science and engineering of reliable and resilient electric power infrastructures. It aims to bridge the gap between the structural integrity of physical components and the functional robustness of the integrated cyber-physical power system. We seek to compile pioneering research that addresses the entire lifecycle of power infrastructure, from design and planning to operation, maintenance, and recovery, under multi-hazard environments.

We invite the submission of high-quality original research and review articles that contribute to the theoretical, computational, and practical aspects of this field. Topics of interest include, but are not limited to, the following:

Reliability, Risk and Resilience Assessment.
Multi-Hazard Safety and Performance.
Novel Methods for Uncertainty Quantification and Reliability Assessment.
Lifecycle Engineering for Power Systems.
Climate Change Adaptation and Mitigation.
Data-Driven and AI-Enabled Approaches.
Resilience-Oriented Planning and Operation.
Cyber-Security of Smart Grids.
Self-Healing Grids and Adaptive Restoration.
Structural Health Monitoring and Digital Provenance.
Case Studies and Lessons Learned.

Guest Editors

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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 guestedited by leading experts in selected topics of interest.

Editor-in-Chief

Prof. Dr. Flavio Canavero

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provided to authors approximately 16.8 days after
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the first half of 2025).