Special Issue

Sustainable Power System Security: Automation, Monitoring, and Intelligent Defense Technology

Message from the Guest Editors

Ensuring the security and resilience of modern energy and transportation infrastructure is critical for sustainable development, especially in the face of increasingly frequent extreme weather events. Both ultra-high voltage (UHV) transmission lines and high-speed railway systems are vulnerable to severe icing, strong winds, and other environmental hazards, posing significant risks to system reliability and public safety. Addressing these challenges requires interdisciplinary innovation in automation, intelligent monitoring, and resilient defense technologies. This Special Issue, "Sustainable Power System Security: Automation, Monitoring, and Intelligent Defense Technology," aims to provide a platform for original research articles and reviews that advance the sustainable security of both power systems and high-speed railways. We encourage submissions focused on disaster mechanisms, predictive modeling, intelligent monitoring, automation strategies, and defense solutions for these critical infrastructures under harsh conditions. Original research articles and comprehensive reviews are both welcome.

Guest Editors

Dr. Guizao Huang

School of Electrical Engineering, Southwest Jiaotong University, Chengdu 611756, China

Dr. Guolin Yang

School of Electrical Engineering, Chongqing University, Chongqing 400044, China

Deadline for manuscript submissions

31 August 2026

Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3
CiteScore 7.7

mdpi.com/si/250868

Sustainability
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sustainability@mdpi.com

mdpi.com/journal/sustainability

Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3
CiteScore 7.7

mdpi.com/journal/sustainability

About the Journal

Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Marc A. Rosen
Faculty of Engineering and Applied Science, University of Ontario Institute of Technology, Oshawa, ON L1G 0C5, Canada

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, RePEc, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1 (Geography, Planning and Development)