Special Issue

Intelligent Fault Detection of Photovoltaic Plants Using Multimodal Approaches

Message from the Guest Editors

We are excited to announce a Special Issue dedicated to the intersection of computer vision technology and fault detection in photovoltaic (PV) plants. With the increasing adoption of solar power, ensuring the efficient operation and maintenance of PV plants is crucial. This Special Issue aims to explore how computer vision, signal processing, and multi-modal techniques can revolutionize fault detection, allowing for early identification and intervention to enhance plant performance and reliability. We invite submissions of novel algorithms, methodologies, case studies, and applications of computer vision for intelligent fault detection in PV plants. Topics of interest include, but are not limited to:

- Image processing
- Machine learning
- Remote sensing techniques applied to PV plant monitoring and diagnostics

This Special Issue seeks to provide a platform for researchers, engineers, and practitioners to exchange ideas, share insights, and push the boundaries in this vital area of renewable energy technology. For more information and to submit your paper, please contact Special Issue Assistant Editor Ms. Haley Lei at haley.lei@mdpi.com

Guest Editors

Dr. Muhammad Hussain
Department of Computing and Engineering, Huddersfield University, Queensgate, Huddersfield HD1 3DH, UK

Prof. Dr. Richard Hill
Department of Computer Science, Centre for Industrial Analytics (CIndA), School of Computing and Engineering, University of Huddersfield, Queensgate, Huddersfield HD1 3DH, UK

Deadline for manuscript submissions

closed (15 July 2025)

About the Journal

Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

Author Benefits

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

High Visibility:
indexed within Scopus, SCIE (Web of Science), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:
CiteScore - Q1 (Control and Optimization)