Special Issue

Power System Fault Detection and Location Based on Machine Learning

Message from the Guest Editors

The predictive abilities of machine learning approaches have led them to be widely used and increasingly applied in many fields. Since electrical energy is a vital component, the electricity service quality has become an important issue for researchers and electricity producer. Many efforts are currently being made to improve the electrical networks' performance and protection. Machine learning techniques can be used to either predict failures or to detect and locate these after their occurrence. In this Special Issue, entitled "Power system fault detection and location based on Machine Learning", we invite authors to submit original research and review articles related to the abovementioned topics. The main objective of this Special Issue is to highlight recent advancements and improvements in the field of power system protection based on machine learning. Topics of interest for this Special Issue include, but are not limited to, the following:

- Deep learning;
- Machine learning;
- Fault diagnosis;
- Anomaly detection;
- Predictive maintenance;
- Fault detection;
- Computer vision;
- Machine monitoring.

Guest Editors

Prof. Dr. Azeddine Kaddouri

Department of Electrical Engineering, University of Moncton, Moncton, NB E1A 3E9, Canada

Dr. Nouha Bouchiba

Faculty of Engineering, University of Moncton, Moncton, NB E1A 3E9, Canada

Deadline for manuscript submissions

closed (15 March 2024)

Electronics

an Open Access Journal by MDPI

Impact Factor 2.6
CiteScore 6.1

mdpi.com/si/178231

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

mdpi.com/journal/electronics

Electronics

an Open Access Journal by MDPI

Impact Factor 2.6
CiteScore 6.1

mdpi.com/journal/electronics

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.

Editor-in-Chief

Prof. Dr. Flavio Canavero
Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

Author Benefits

High Visibility:

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

Journal Rank:

JCR - Q2 (Engineering, Electrical and Electronic) / CiteScore - Q1 (Electrical and Electronic Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).