signals

an Open Access Journal by MDPI

Tracked for Impact Factor

CITESCORE 3.2

Signal Processing and Machine Learning for Asset Management and Condition Monitoring

Guest Editors:

Dr. Shady S. Refaat
Electrical and Computer Engineering Department, Texas A&M University at Qatar, Doha P.O. Box 23874, Qatar

Dr. Majdi Mansouri
Electrical and Computer Engineering Department, Texas A&M University at Qatar, Doha P.O. Box 23874, Qatar

Deadline for manuscript submissions:
closed (31 May 2023)

Message from the Guest Editors

Dear Colleagues,

Signal processing is a tool to capture, interpret and extract meaningful information from physical phenomena. Electrical power assets are usually overstrained and suffer from overaged conditions, including atmospheric instability. The electric equipment performance degrades over time. It requires effective evaluation of performance degradation to ensure long-term operations, avoid unplanned production downtime and maximize asset lifetime for greater resiliency. Asset management strategies support monitoring various parameters of the condition of those electric assets and also identify the primary degradation mechanisms, estimate the aging, predict the remaining useful lifetime, allow for optimal performance, reduce unplanned shutdowns and identify the causes of failures at early stages. Different machine learning and artificial intelligence methods are used for asset management and condition monitoring.

signals

an Open Access Journal by MDPI

Tracked for Impact Factor

CITESCORE 3.2

Editor-in-Chief

Prof. Dr. Santiago Marco
1. Department of Electronics and Biomedical Engineering, University of Barcelona, Marti I Franqués 1, 08028 Barcelona, Spain
2. Signal and Information Processing in Sensor Systems, Institute for Bioengineering of Catalonia, The Barcelona Institute of Science and Technology, Baldiri Rexac 10-12, 08028 Barcelona, Spain

Message from the Editor-in-Chief

Our primary goal is to encourage scientists and engineers to publish their theoretical results and developed methods in as much detail as possible. There is no limit to the maximum length of papers. Whenever possible, authors are encouraged to provide relevant data and developed code so that the results can be reproduced. Our goal is to provide a platform for scientists and engineers to share new approaches to signal processing in various application domains.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within Scopus, ESCI (Web of Science), Inspec, and other databases.
Rapid Publication: manuscripts are peer-reviewed and a first decision is provided to authors approximately 26.1 days after submission; acceptance to publication is undertaken in 4.9 days (median values for papers published in this journal in the first half of 2024).

Contact Us

Signals Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/signals
signals@mdpi.com
𝕏@Signals_MDPI