

Special Issue

Nonlinear System Identification and Soft Sensor Design

Message from the Guest Editors

This Special Issue aims to explore the latest advancements, challenges, and applications in the interdisciplinary domain of nonlinear system identification and soft sensor design. By collating researchers from different fields, we aim to foster collaboration and knowledge exchange in this rapidly evolving area. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Feature extraction;
- Outlier detection;
- Data selection;
- Big and small datasets;
- System identification;
- Linear and nonlinear models;
- Deep learning techniques;
- Optimization strategies;
- Recurrent neural networks;
- Reservoir computing;
- Bio-inspired learning techniques;
- Model validation;
- Soft sensor maintenance;
- Transfer learning;
- Model interpretability;
- Sparse modeling;
- Neuromorphic computing;
- Soft sensors for time-varying systems;
- Industrial applications of soft sensors;
- Fault detection.

Guest Editors

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Deadline for manuscript submissions

closed (15 November 2024)



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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.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.4 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).