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Nonlinear System Identification and Soft Sensor Design

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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.



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Message from the Editor-in-Chief

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