

## Special Issue

# Sliding Mode and Robust Control: Theory and Applications

### Message from the Guest Editors

Advanced control strategies are critical to ensuring the effectiveness and performance of modern engineering systems. Sliding mode and robust control are effective schemes that can provide stability and precise performance under adverse conditions, such as unknown disturbances, unmodeled dynamics, parametric variations, and nonlinear interactions. We welcome original research articles and comprehensive reviews with both theoretical advances and practical applications. Topics of interest include, but are not limited to:

- Advanced sliding mode control methods.
- Robust control theory and synthesis methods.
- Adaptive sliding mode control methods.
- Higher-order sliding mode control methods.
- Active disturbance rejection control methods.
- Disturbance observer and uncertainty estimation methods.
- Event-triggered and sampled-data robust control methods.
- Learning-based and data-driven robust control methods.
- Fault-tolerant control and secure control methods.
- Sliding mode and robust control in cyber-physical systems.

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### Guest Editors

Dr. Xiaolei Li

Prof. Dr. Yi Zeng

Dr. Chengwei Wu

Dr. Xiangyu Shao

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### Deadline for manuscript submissions

closed (20 April 2026)



## Applied Sciences

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## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
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