

Special Issue

Synergy of Machine Learning and System Theory: New Frontiers in Nonlinear System Identification

Message from the Guest Editor

The integration of machine learning (ML) with system theory has opened new avenues for tackling long-standing challenges in nonlinear system identification. Traditional system identification methods often rely on rigorous mathematical modeling, while ML offers powerful tools for data-driven inference, adaptability, and scalability. This convergence promises transformative potential in modeling complex dynamical systems with improved accuracy, interpretability, and real-time capabilities. This Special Issue will explore the emerging synergy between these two domains, fostering innovative approaches that blend theoretical insights with practical ML techniques.

Guest Editor

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Systems is a leading venue for the quick and global dissemination of results of cutting-edge research in various areas of systems science and systems-related fields. An increasing number of researchers are realizing the enormous potential of systems thinking in managing the many unprecedented and complex issues in all areas of need. The *Systems* journal provides a home of exceptional quality for the manuscripts of these researchers who often find it difficult to publish their work in conventional discipline focused journals.

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