

Special Issue

State-Wise Safe Learning and Control for Robotics

Message from the Guest Editor

This Special Issue aims to bring together novel contributions from these intertwined domains, encompassing both theoretical advances and practical insights. We invite submissions that explore state-wise safe reinforcement learning, energy-function-based control, and data-driven modeling of dynamical systems. Submissions can include new algorithmic frameworks, breakthroughs in scalability, or innovative benchmarks for rigorous evaluation and assessment. Our goal is to showcase how theoretical rigor and hands-on implementation can converge to help autonomous robots operate with guaranteed safety. By highlighting cutting-edge methods and forging a path toward safe, reliable, and robust control, this Special Issue will serve as an essential forum for researchers and practitioners in robotics, artificial intelligence, and control systems.

- safe learning and control
- state-wise safety
- reinforcement learning
- dynamical systems modeling
- energy-function-based methods
- data-driven control
- robotics applications
- real-world autonomous systems

Guest Editor

Dr. Weiye Zhao
Robotics Institute, Carnegie Mellon University, Pittsburgh, PA, USA

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Machines
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
machines@mdpi.com

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About the Journal

Message from the Editor-in-Chief

Machines is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications.

Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided.

There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

Editor-in-Chief

Prof. Dr. Antonio J. Marques Cardoso
CISE–Electromechatronic Systems Research Centre, University of
Beira Interior, Calçada Fonte do Lameiro, P-6201-001 Covilhã, Portugal

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(Control and Optimization)

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