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Machine Learning in Model Predictive Control and Optimal Control

Guest Editors:

Dr. Zhe Wu

Dr. Xunyuan Yin

Dr. Yan Qin

Prof. Dr. Xiaodong Xu

Deadline for manuscript submissions:
closed (20 November 2023)

Message from the Guest Editors

This Special Issue intends to provide a platform for researchers and practitioners to share state-of-the-art algorithms and methods for both theory and application works to address some of the aforementioned fundamental challenges associated with using machine learning in MPC and optimal control.

Potential topics include, but are not limited to:

- Novel ML methods for model development and theoretical analysis on the generalization performance of ML models;
- Theoretical methodologies and applications of predictive control and optimal control using machine learning techniques;
- ML in parameter and state estimation, fault detection, soft sensing, and their applications in MPC and optimal control;
- Computational development of ML-based MPC and optimal control systems to address practical challenges such as computational efficiency, feasibility for large-scale systems, etc.

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Editor-in-Chief

Prof. Dr. Giancarlo Cravotto
Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

Message from the Editor-in-Chief

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Processes Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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