Special Issue

Applications of Machine Learning and Optimal Control to Aerospace Systems

Message from the Guest Editor

Although machine learning and optimal control have been successfully applied in various fields, their application within aerospace systems is still in its infancy. Due to the high standards of safety—a critical aspect of aerospace engineering—the data-driven machine learning approach must be both verifiable and interpretable, and the optimal control technology must be computationally tractable for onboard autonomy, even in complex and dynamic environments. In response to these technological challenges, a variety of novel approaches and algorithms have arisen, offering many ways that aerospace systems can reap the benefits of machine learning and optimal control, especially in the areas of guidance, navigation, and control systems. In this Special Issue, we would like to explore novel research and recent advances in machine learning and optimal control in aerospace applications. For this purpose, authors are invited to submit full research articles, as well as comprehensive review and survey papers.

Guest Editor

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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.

Editor-in-Chief

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