Special Issue

Novel Approaches and Trends in Aerospace Control Systems

Message from the Guest Editor

This Special Issue aims to gather original research and review articles that explore recent advancements in control technologies for aerospace applications. Contributions should highlight the development and implementation of innovative methods, tools, and frameworks that address real-world challenges. Examples of such applications include autonomous spacecraft maneuvers, urban air mobility (UAM), planetary exploration rovers, and next-generation green aviation systems. The topics of this Special Issue include, but are not limited to, the following:

- Robust and adaptive control for aerospace systems.
- Guidance, navigation, and control (GNC) of spacecraft and aircraft.
- Control algorithms for autonomous drones and unmanned aerial vehicles (UAVs).
- Fault-tolerant control for critical aerospace operations.
- Optimization-based control strategies in aerospace engineering.
- Intelligent and learning-based control systems.
- Multi-agent coordination and control in aerospace swarms.
- Hybrid and nonlinear control applications in aerospace engineering.
- Energy-efficient control strategies for green aviation.
- Advanced simulation and validation tools for aerospace control systems.

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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