Special Issue

Advanced Flight Control and Intelligent Trajectory Planning in UAVs

Message from the Guest Editor

Trajectory planning involves determining an optimal flight path for an aircraft from an initial point to a target under given constraints while meeting specific performance criteria. With the growing complexity of UAV missions, advanced flight control and trajectory planning have become essential for efficient and reliable mission execution. Trajectory planning enables the design of safe flight paths by integrating factors such as environmental threats, flight performance limits, and spatiotemporal coordination. Meanwhile, advanced flight control methods effectively guide UAVs along planned trajectories, ensuring successful mission completion. This Special Issue invites original research addressing challenges in aerospace flight control systems. We welcome theoretical and practical contributions including, but not limited to, the following topics:

- Advanced flight control for UAVs
- Intelligent flight control for UAVs
- Dynamic trajectory planning for UAVs
- Intelligent trajectory planning for UAVs

Guest Editor

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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.

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