

Special Issue

Advances and Applications in Unmanned Aerial Vehicles

Message from the Guest Editors

The objective of this Special Issue is to address the recent advances and applications in unmanned aerial vehicles, considering both theory and experiments for fixed-wing, multirotor, and non-conventional (convertible) vehicles. Manuscripts related but not limited to virtual simulations, computational fluid dynamics (CFD), wind tunnel testing, and ground testing of UAVs are welcome. We invite researchers and engineers to contribute their original unpublished works, focusing on (but not limited to) the topics listed below:

- Modeling and simulation
- Design and development
- Guidance, navigation, and control (GNC)
- Formation flight and coordination of multiple UAVs
- Path planning
- Sensing and avoiding algorithms
- Artificial intelligence for UAVs
- Convertible UAVs (non-conventional configurations)
- Real-time autopilots and embedded control for UAVs
- Real-time applications: agriculture, infrastructure and mining

Guest Editors

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Deadline for manuscript submissions

closed (31 May 2024)



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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.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.9 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).