

Special Issue

Dynamics and Control of UAVs

Message from the Guest Editors

The use of unmanned aerial vehicles (UAVs) is significantly increasing to a wide range of useful tasks, such as recognition in open fields, communication, environmental monitoring, precision agriculture, transportation of packages, rescue operations, policing, professional photography, remote inspection, etc. These applications thus rely on modelling, control systems and design of control strategies for UAVs. Therefore, more studies of advanced control techniques and modeling are necessary in order to ensure that UAVs can navigate as required to carry out specific applications in a robust and reliable manner. In this context, we invite the submission of papers to this Special Issue, with a focus on new developments in modeling and advanced control techniques for UAVs and their applications. We are soliciting high-quality original research papers on topics including but not limited to modeling and control algorithms, collision-free navigation and control, trajectory optimization, cooperative control, fault detection, nonlinear observers and applications in real fields.

Guest Editors

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Deadline for manuscript submissions

closed (20 March 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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