

Special Issue

Advances in Unmanned Aerial Vehicle (UAV) System

Message from the Guest Editors

With the increasing development of communication technology, sensor technology, and artificial intelligence, unmanned aerial vehicles (UAVs) have been widely used in both military and civil applications. They have received great attention from researchers and much effort has been put in as well. Accordingly, the objective of this special issue is to present the new advances in UAV systems. The topics of this special issue include, but are not limited to, modeling, path planning, localization, formation control, coordination control, fault diagnosis, security control, performance optimization, hardware design, tracking control, obstacle avoidance, vision-based navigation, reinforcement learning, dynamic simulation, experiments, and applications. Best regards

Guest Editors

Prof. Dr. Shanling Dong

College of Electrical Engineering, Zhejiang University, Hangzhou 310027, China

Prof. Dr. Meiqin Liu

College of Electrical Engineering, Zhejiang University, Hangzhou 310027, China

Deadline for manuscript submissions

closed (20 July 2025)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/124545

Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
appls-ci@mdpi.com

mdpi.com/journal/

[appls-ci](https://appls-ci.mdpi.com)





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



[mdpi.com/journal/
applsci](https://mdpi.com/journal/applsci)



About the Journal

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

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)