



## Advances in Quadrotor Unmanned Aerial Vehicles

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### Message from the Guest Editor

Dear Colleagues,

In recent times, unmanned aerial vehicles (UAVs) have played pivotal roles in many different applications. As a major member of the UAV family, quadrotor UAVs have experienced an explosive growth in number and are widely used for aerial photography, environmental monitoring, disaster relief, emergency rescue, express delivery, precision agriculture, and so on. However, due to diverse tasks, harsh environments, and complex constraints, quadrotor UAVs have suffered from various challenges in terms of reliability, robustness, and flexibility. Thus, designing quadrotor UAVs with better intelligence, exquisite functions, and advanced performances are critical.

From a methodological perspective, we are interested in studies that go beyond traditional approaches. Potential topics include, but are not limited to, the following topics:

- (1) Overall design and optimization;
- (2) Load design and application;
- (3) Multiple drone clusters;
- (4) Online mission planning;
- (5) Robust and intelligent control;
- (6) Sensors and actuators.





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*Drones* is the only international open-access journal about the science, policy and technology of drones and its applications. Nowadays, the proliferation of drones is a reality for local policy makers, regulatory bodies, mapping authorities, startups and consolidated companies. There are many uses and benefits of drones: from the emergence of new sensors and the evolution of new platforms; to the development of specific software and the emergence of new applications. *Drones* publishes reviews, regular research papers, communications and short notes, without restriction on the length of papers. *Drones* seeks to provide a central forum for scholars engaged in drones' research and applications.

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