Special Issue

Flight Control and Collision Avoidance of UAVs: 2nd Edition

Message from the Guest Editors

We are pleased to announce this Special Issue of *Drones* on "Flight Control and Collision Avoidance of UAVs: 2nd Edition". This special issue aims to collect papers that provide insights about state-of-the-art flight control and collision avoidance to enable safe UAV operations in the above two scenarios:

- detection of obstacles and other aircraft in challenging conditions. This covers very hard to detect objects like wires, small dynamic objects against cluttered background and poor visibility conditions like smoke, dust, rain, fog, low-to-zero light, and scenes with high dynamic range. It also covers situations where flight speed and rotation rates are high, causing motion blur
- prediction of other aircraft motion via determining attitude and flight direction of other UAVs
- multiple aircraft tracking
- precise maneuvering to avoid collision such as tight sensor–controller integration
- safety verification
- safe flight control decision under uncertainty from sensors, other aircraft actions
- achieving near-human flight performance and safety

We look forward to receiving your original research articles and reviews.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

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.
There is a need for high quality papers in this area and the *Drones* Editorial Board are widely recognized international leaders. *Drones* journal guarantees a serious peer review and a rapid publication across the whole discipline of drones.

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