Autonomous Control of Unmanned Aerial Vehicles

Guest Editor:

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Message from the Guest Editor

Unmanned aerial vehicles are being increasingly used in different applications in both military and civilian domains. Operating unmanned flying vehicles is useful yet it can be challenging when the vehicle interacts with the environment. This interaction could be, for instance, in the form of landing on ground or landing pads, docking into a station, approaching terrain for inspection, or approaching another aircraft for refueling purposes. Thus, it is important to find effective and flexible strategies to enable vehicles to perform such tasks autonomously.

Classical features of autonomous control design involve stability enhancement and waypoint flight. However, new requirements in the recent development of UAVs demand robust and adaptive control techniques for different flight conditions, aggressive maneuvers, use of non-traditional sensors such as cameras, obstacle avoidance, fault detection, fault tolerant control, etc. To achieve these ambitious requirements, systematic and innovative methods are required.

We invite original contributions, as well as review papers in this area.

Special Issue

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Message from the Editor-in-Chief

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