Special Issue

Cooperative Control, Decision-Making, and Optimization of Unmanned Aerial Vehicles

Message from the Guest Editors

In the last three decades, unmanned aerial vehicles (UAVs) have been applied in many fields, such as reconnaissance, patrolling, and the transportation of loads. The ability to coordinate multiple UAVs in a swarm environment more attraactive than using a single UAV. UAV swarms require cooperative control, decision-making, and optimization technology. This is a hot topic in academia and industry at present, and it is critical to ensure the safety of UAVs and improve the mission success rate. This Special Issue aims to collect papers on the state of the art and future trends in UAV techniques, enabling reliable cooperative control and effective decision making. Papers are solicited on all areas directly related to these topics, including, but not limited to, the following:

- Cooperative control;
- Self-organizing control and optimization of UAV swarm;
- UAV autonomous decision-making;
- UAVs maneuver decision-making;
- Autonomous obstacle avoidance for UAVs;
- Cooperative detection for UAV swarms;
- Cooperative search for UAVs;
- UAV cooperative navigation;
- Intelligent decision making and motion planning;
- Path planning and task assignment for UAV swarms;

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You are welcome to contribute a research article or a comprehensive review for consideration and publication in *Aerospace* (ISSN 2226-4310), an on-line, open access journal.
Aerospace adheres to rigorous peer-review as well as editorial processes and publishes high quality manuscripts that address both the fundamentals and applications of aeronautics and astronautics. Our goal is to enable rapid dissemination of high impact works to the scientific community.

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