Special Issue

Recent Advances on Cooperative Navigation and Control Methods for Multiple Unmanned Aerial Vehicles

Message from the Guest Editors

Unmanned aerial vehicles (UAVs) have been extensively applied in numerous military and civilian applications, e.g., reconnaissance, monitoring, exploration, inspection, and rescue. As their most critical component, navigation and control systems are of great significance for ensuring flight safety. Compared with a single UAV, multiple UAVs have the merits of higher efficiency and reliability based on vehicle-to-vehicle communication via information sharing. In view of the developments of UAV cooperative and control technologies in past decades, there is an urgent need to develop advanced cooperative navigation and control techniques to meet the demands of complex and tasks in challenging environments. This Special Issue aims to bring together researchers and practitioners to explore the latest developments in navigation and control methods and to present a collection of papers that address the challenges and opportunities in these fields. We invite submissions from academia and industry on theoretical and practical aspects related to cooperative navigation and control theories and applications for unmanned aerial vehicles.

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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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