Special Issue

Tracking and Sensing Based on Autonomous Aerial Vehicles

Message from the Guest Editors

Unmanned aerial vehicles (UAVs) are currently being researched for a wide range of applications, such as surveillance and reconnaissance purposes, aerial surveys for agriculture, traffic monitoring, pollution control, meteorological data collection, pipeline and electrical transmission line survey, early fire detection, wildlife population tracking, crowd monitoring, actions against poaching, and more. In all of these applications, appropriate communication, control, navigation, tracking, and sensing onboard systems play a prominent role and determine the success of the mission regardless of the type of flying robot (fixed wing, multirotor, hybrid VTOLs). Tracking and sensing operations based on UAVs must be preceded by a thorough analysis, low level control and navigation synthesis, careful simulation studies, and precise preparation of hardware for in-flight studies. This Special Issue is focused on new developments in the field of control, navigation, tracking, and sensing based on UAVs being used for various applications.

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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

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