Special Issue

Application of Autonomous Unmanned Aircraft Systems (UAS) in Intelligent Sensing

Message from the Guest Editors

Applying autonomous unmanned aircraft systems (UAS) for sensing applications could significantly improve the efficiency, reduce the costs, and lower the risks that are commonly involved in these types of applications. With the fast developments that have been seen in UAS/UAV platform design, flight control systems, localization, and navigation algorithms as well as in sensor technology, autonomous UAS has become a promising sensing platform that can be used in various applications. The key aim of this Special Issue is to bring together innovative research that uses off-the-shelf or custom-made platforms to extend autonomous aerial sensing capabilities. Contributions from all fields that are related to the UAS/UAV in sensing applications are of interest, including, but not limited to, the following topics:

- Unmanned aircraft systems (UAS)/unmanned aerial vehicle (UAV) platform design;
- Intelligent sensing technologies;
- Aerial-based environment monitoring;
- Aerial-based infrastructure inspection;
- Autonomous system development;
- Localization, mapping, and planning;
- Multi-agent collaboration;
- Learning-based data processing.

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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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