Special Issue

Single and Multi-UAS-Based Remote Sensing and Data Fusion

Message from the Guest Editors

Unmanned aircraft systems (UASs) currently represent a powerful tool for a large variety of civil and military remote sensing applications, being highly versatile, easy to deploy, and capable of quickly covering wide areas. In this respect, significant advancements are being made in two technological directions. On the one hand, the miniaturization of sensing systems is fostering the installation of multi-sensor architectures including not only passive optical sensors, but also active instruments such as radars and LIDARs (especially exploiting the solid-state technology), even on board small platforms. On the other hand, many researchers are investigating the potential of using formations or swarms of cooperative vehicles to improve efficiency and performance with respect to single UAS operations. For both single and multi-UAS based concepts, data fusion represents a key algorithmic paradigm to unleash the full potential of multi-sensor applications. Indeed, data fusion plays a critical role not only concerning mission payloads, but also in the framework of real-time navigation and control, as well as trajectory/attitude reconstruction.

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Message from the Editor-in-Chief

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

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