



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

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Message from the Guest Editors

Dear Colleagues,

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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