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Advanced UAV-Based Sensor Technologies

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Message from the Guest Editors

The use of Unmanned Aerial Vehicles (UAVs) in the global civilian market is continually growing. This trend is due to the integration of high-performance processors, sensors, and electronic devices with a lower power consumption on UAV platforms. More and more sensors are being embedded on UAVs to ensure safety and automatic navigation and perform measurements during the flight according to the mission targets.

Of special interest is research work that seeks to address recent developments in new technology for metrology-assisted production in aerospace industry, UAV component measurement, sensors and associated signal conditioning for aerospace, and calibration methods for electronic testing and measurement for aerospace, as well as relevant prospects in terms of opportunities and challenges.

Papers are encouraged in, but not limited to, the following topics: electronic instrumentation for UAV; automatic test equipment; sensors and sensor systems for UAV applications; monitoring systems; metrology for navigation and precise positioning; flight test techniques; UAV swarms; aerial-photogrammetry; health structural monitoring; precision agriculture; search and rescue with UAV.



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Special Issue



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Message from the Editor-in-Chief

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