

Special Issue

Performance Evaluation of Lightweight LiDAR for UAV Applications

Message from the Guest Editor

In the last decade, small and lightweight LiDAR systems have evolved all the way from research prototypes to easy-to-use cost-effective integrated commercial systems, supported by powerful point-cloud analysis software. From an application point of view, the operator needs to evaluate the productivity and cost-effectiveness of the system, by taking into account workload related to field survey and back-office post-processing tasks, as well as equipment cost. Comparison with alternative survey methods, the most significant being photogrammetry, is necessary, taking into account different capabilities, e.g., for ground detection under vegetation cover, or wire detection. Contributions are welcome focusing on documented performance evaluation of UAV-borne LiDARs, with an emphasis on establishing rigorous performance metrics and methodologies, also specific to relevant case studies and applications. Availability of data is considered an added value.

Guest Editor

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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