UAV Application in Forestry

Guest Editors:

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Message from the Guest Editors

Dear Colleagues,

UAV remote sensing technology at small spatial scales has substantially enhanced the measurement efficiency for forest stands and even for individual trees, and verified its reliability at larger scales. This technology offers opportunities for testing fundamental theories and generating new insights into forest management, forest ecology, and tree phenotyping. Recent advances in UAV applications in forestry have emerged as part of a novel interdisciplinary domain. This Special Issue invites contributions on UAV remote sensing of forest ecosystems using imaging technologies, photogrammetry, and LiDAR observations. The topics include, but are not limited to:

- Multi-modal and multi-source UAV data acquisition and processing;
- New theories, models, and algorithms to estimate structural, biophysical, and biochemical variables;
- Using the UAV observations to address or explore forest ecology problems;
- Synergetic use of UAV and satellite data to optimize forest inventory;
- Investigations of uncertainties and errors during UAV observations and data processing, such as radiometric corrections and geometric corrections.

Special Issue

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Message from the Editorial Board

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