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Application of Uncrewed Aerial Vehicles (UAVs) in Vegetation Monitoring

Guest Editor:

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Deadline for manuscript submissions: **29 July 2024**



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Message from the Guest Editor

Dear Colleagues,

The application of Uncrewed Aerial Vehicles (UAVs) in vegetation monitoring has witnessed significant advancements, revolutionizing the way we observe and analyze plant life and condition. UAVs have the capacity to acquire data to monitor vegetation at very high spatial and temporal resolutions, is flexible, and cost-effective. At the same time, UAVs are equipped with advanced remote sensing equipment, which enables accurate observation and flexible deployment to measure vegetation cover, growth status, and terrain features.

This Special Issue aims to collect high-quality and innovative scientific papers on the application of UAVs for vegetation monitoring. Specific topics include, but are not limited to:

- 3D monitoring for structural change;
- The monitoring of plant health/fate using imaging spectrometry;
- The application of AI and machine learning models for classification and change detection;
- Multi-modal sensing for monitoring;
- Real-time and near-real time monitoring;
- The development of novel but meaningful metrics for monitoring;
- Automation of monitoring programs;
- UAV data informing monitoring at larger scales (ie satellite).





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Editor-in-Chief

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Message from the Editor-in-Chief

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