



Remote Sensing

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Special Issue Reprint

Advancing UAV-Based Remote Sensing

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This Reprint brings together recent advances in UAV-based remote sensing, highlighting innovations in sensing technologies, data acquisition strategies, methodological developments, and diverse real-world applications. The collected contributions reflect the growing importance of unmanned aerial vehicles as flexible and high-resolution platforms for environmental monitoring, precision agriculture, infrastructure inspection, and geospatial analysis. The Reprint covers a broad spectrum of topics, including the deployment of advanced sensors for atmospheric measurements, the optimization of UAV and satellite integrated sampling strategies, improvements in photogrammetry and three-dimensional reconstruction, and robust navigation under challenging conditions. In addition, it presents state-of-the-art approaches in data fusion, deep learning, and spectral analysis, enabling the more accurate and efficient interpretation of remote sensing data. Applications featured in this Reprint demonstrate the practical impact of UAV technologies, ranging from flood risk detection and soil property estimation to target tracking and agricultural operations. Together, these contributions provide a comprehensive overview of current trends and emerging directions in UAV-based remote sensing, offering valuable insights for researchers and practitioners in this rapidly evolving field.

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