Special Issue

Crop Disease Detection Using Remote Sensing Image Analysis

Message from the Guest Editor

Climate change and climate variability impact requires strategic innovations for timely and accurate plant disease assessment. Crop condition monitoring has a significant impact on disease control, limiting the tremendous effect to agricultural production, degrading yield and quality and consequently leading to severe financial loss for farmers. Remote-sensing-based technologies have proven more effective compared to conventional ones on occasions where iterative large-scale measurements are needed as the only sole method for data acquisition. Recently, different approaches that are oriented to disease monitoring and detection through employing optical sensors fitted on a variety of platforms have been demonstrated, including portable solutions to satellite, aircraft, and UAVs for efficient crop monitoring. Simultaneously, noticeable progress in the AI field enables successful supervised and unsupervised image analysis based on deep learning methods to enhance the performance of crop health monitoring. This Special Issue aims to gather relevant research work of novel applications that employ remote sensing techniques for plant disease detection.

Guest Editor

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Deadline for manuscript submissions

closed (15 January 2022)

Remote Sensing

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 8.6

mdpi.com/si/44182

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Message from the Editor-in-Chief

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

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