Special Issue

Novel Applications of UAV and Image Processing for Agriculture

Message from the Guest Editor

Equipped with advanced imaging sensors, UAVs can capture subtle the changes in and features of plants, providing a detailed understanding of crop health. These sensors can measure indicators such as the chlorophyll content, leaf area index, and plant height, helping farmers and researchers monitor the crop growth conditions and potential issues. Furthermore, UAV imaging technology can also be used for crop biomass estimation and yield prediction. By collecting a large amount of UAV image data and combining image processing algorithms and machine learning techniques, researchers can establish accurate models to estimate the crop biomass and predict the yield. This Special Issue's research articles will provide useful insights into the most recent developments in UAV imaging technology. The utilization of advanced imaging sensors and image processing algorithms is particularly important, with a specific focus on crop health, biomass estimation, yield prediction, and pest and disease forecasting. We want original research, viewpoints, and reviews to encourage a thorough conversation on this important subject.

Guest Editor

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Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. *Agriculture* is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

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