



Drones for Precision Agriculture: Remote Sensing Applications

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Message from the Guest Editors

It is very well known that world population will reach 9100 million by 2050. Therefore, food security should be considered as one of the main targets following the 2030 Sustainable Development Goals. Further, it is not possible to speak about global population increase without considering global warming future scenarios. Precision agriculture should be considered a useful tool to face all these global challenges. Unmanned aerial vehicles have evolved rapidly in the last decade, where different sensors improve sustainable crop production for multiple aspects/applications such as: 3-D maps for soil analysis; Mid-season crop health monitoring; Irrigation equipment monitoring; Pesticide spraying; Increase the yield and quality; Wildlife detection.

Basic research studies applied to precision agriculture, in any of the subjects presented are well received—especially those studies that address data analysis techniques, ‘exportable’ to other applications and crops, facing an ‘open science’. Successful experiences of application of the use of drones in agriculture (woody crops, horticulture etc.) based on results of a long-time scale are also expected.





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