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Precision Weed Mapping and Management Based on Remote Sensing

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Message from the Guest Editors

Dear Colleagues,

The term precision agriculture involves pest minimization, control of unwanted species, and generation of strategies for dealing with weeds. Due to the loss in productive potential and quality that they cause in the crops, the differential management of these weeds is fundamental in a context the search for sustainability and efficiency. Recent advances in this field are based on the combination of remote sensing with the use of cutting-edge technologies such as deep learning, computer vision, UAV robotics, multisensor systems, etc.

Aerial data collection has undergone a considerable change with the growth of UAVs, which have given birth to new, powerful sensor-bearing platforms for various agricultural applications. The growing adoption of these aerial platforms by producers, both large and small, is gradually taking place. It involves the integration of cost-effective technologies, adapted to existing field conditions, easy to use and with standardized components. UAV platforms can be assessed as promoters of precise weed control considering agricultural semistructured environments.

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Message from the Editorial Board

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