remote sensing

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Remote and Proximal Assessment of Plant Traits

Guest Editors:

Dr. Ittai Herrmann
The Plant Sensing Laboratory, The Robert H. Smith Institute for Plant Sciences and Genetics in Agriculture, The Robert H. Smith Faculty of Agriculture, Food and Environment, The Hebrew University of Jerusalem, P.O. Box 12, Rehovot 7610001, Israel

ittai.herrmann@ mail.huji.ac.il

Dr. Katja Berger
Department of Geography, Physical Geography and Remote Sensing, Ludwig Maximilian University Munich, Luisenstr. 37, 80333 Munich, Germany

katja.berger@lmu.de

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Message from the Guest Editors

Dear Colleagues,

Plants are optically sensed by a variety of sensors and at different scales to answer diverse research questions and to meet practical challenges. Research in quantitative remote sensing starts at the organ scale moving to the entire plant, population, field, or biotope, up to data obtained from entire continents to explore global phenomena. This Special Issue strongly encourages contributions aimed at estimating the morpho-physiological and biochemical plant traits from Earth Observation data in agricultural and ecological contexts. This Special Issue aims to cover a vast range of spatial resolutions and spectral resolutions. Besides diverse empirical and physically based retrieval approaches, "hybrid approaches" combining the generic properties of radiative transfer models with the flexibility and efficiency of nonlinear nonparametric methods are welcome. Moreover, time-series analysis related to plant traits assessment can be exploited. This Special Issue is expected to demonstrate recent progress and to discuss future perspectives in plant traits sensing.

Dr. Ittai Herrmann
Dr. Katja Berger
Guest Editors

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Special Issue