



## Crop Water Requirement and Irrigation by Remote Sensing

Guest Editor:

**Dr. George Papadavid**

Agricultural Research Institute  
Nicosia, P.O.Box 22016, Nicosia  
1516, Cyprus

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### Message from the Guest Editor

Dear colleagues,

Remote sensing for hydrological purposes is used to improve farm-level irrigation management and fight water scarcity. The possibility for monitoring irrigation demand from space is catalytic for policymakers. The increased accuracy can lead to a reduction in water for irrigation and improve water reservoir management. In addition, at the micro-economic and producers' levels, improved irrigation management can have a positive effect on the economics of farms.

The use of remotely sensed data is very useful for the deployment of water strategies because it can offer a huge amount of information in a short time, compared to conventional methods. Besides the convenience and reduction in time, remotely sensed data lessen the costs for data acquisition, especially when the area is extended. The potential of remote sensing techniques in irrigation and water resource management has been widely acknowledged. Multispectral images from many different sensors are used to infer crop water requirements, which are the main input for water balance methods and models.





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## Message from the Editor-in-Chief

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*Agronomy* Editorial Office  
MDPI, Grosspeteranlage 5  
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