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Crop Monitoring Strategies for Precise Irrigation Management

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Message from the Guest Editor

The relevance of irrigated agriculture is well known, with 40% of the world's agricultural output produced on only 20% of the cultivated area. There is no doubt that irrigated agriculture is essential in achieving the objective of feeding a world population in a state of constant growth. However, the important role that irrigated agriculture must play is not without major difficulties, such as the scarcity of fresh water in many producing regions and the large volumes of water already devoted to irrigation (70% of the world's water demand).

Irrigated agriculture faces, therefore, the challenge of producing more with a similar amount of, or even fewer, water resources. The scientific community and the stakeholders involved in water management are challenged to develop and implement irrigation strategies to increase irrigation water productivity. New technologies (e.g., sensors, wireless sensor networks, unmanned aerial vehicles (UAVs), ICTs, cloud computing) can contribute enormously to this end. [...]

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Special Issue



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Message from the Editor-in-Chief

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