



Precision Water Management in Dryland Agriculture

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Message from the Guest Editor

Dear Colleagues,

Precise water management in drylands is fundamental to improve food production, sustainability of water resources and economic growth, as well as maximize water use efficiency. Precision water management will encompass optimization of irrigation water at the farm level, allocation of surface and ground water at the regional level and harnessing water at the watershed level. Modern day smart and intelligent information processing and data analytics approaches, such as modeling techniques, remote sensing, machine learning, unmanned aerial systems (UAS), can help ensure better decision making about water management for drylands.

This Special Issue on “Precision water management in dryland agriculture” is intended to provide new perspectives on dryland water management at the farm, regional and watershed levels, driven by smart technologies. Therefore, research articles, review articles and case studies involving emerging technologies and their use in water resource optimization, allocation, exploration and management, with a special focus on dryland agriculture, are warmly welcome.

Dr. Dongwei Gui

Guest Editor



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Message from the Editor-in-Chief

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