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Optimization of Irrigation Scheduling: Challenges and Perspectives

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Message from the Guest Editors

Irrigation is increasingly important for agricultural production in many regions of the world. A dramatic rise in the demand for agricultural water is expected in coming years because of population growth, and economic development under a probable climate change scenario. In such circumstances, there will most likely be a reduction in fresh water resource availability for irrigation due to increased urban, industrial and environmental demands. Thus, the improvement of irrigation water management is crucial to increase water use efficiency and, consequently, enhance the sustainability of irrigation agriculture.

Optimal irrigation management strategies are not easy to define. In particular, irrigation scheduling (magnitude, duration, and timing of irrigation events) depends on several variables relating to crop, soil, weather, irrigation and fertilization methods, energy source[...]

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Special issue



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Message from the Editor-in-Chief

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