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Research on the Application of Information Technology in High-Efficiency Water Use in Agriculture

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Message from the Guest Editors

The rapid development of new information technologies such as the Internet of Things and cloud computing has provided new technical means for the precise management of agricultural water use. Information perception technology and equipment, such as soil moisture, seedling and labor employment, have been widely used. Many experts worldwide have carried out useful explorations of big data and deep learning theory in regional soil moisture perception, farmland irrigation decision-making, irrigation area water management and other aspects, accumulated some experience, yielding several new technologies and new results.

The scope of this Special Issue includes (but is not limited to): rapid and accurate perception of soil moisture, seedling condition and labor employment, fusion of multi-source irrigation information, intelligent decision-making of farmland water management, regional water efficiency evaluation, optimal allocation models and decision support of agricultural water and soil resources, big data and machine learning and other technical methods for improving agricultural water efficiency. This Special Issue also welcomes systematic reviews and short comment papers.



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Special Issue



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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

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