



## Sustainable Management in Agricultural Irrigated Systems

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### Message from the Guest Editor

Dear Colleagues,

Agriculture is facing multiple crucial challenges. In order to feed the growing world population, which could reach more than nine billion by 2050, it will be necessary to double the production of crops. This, in turn, is driving agricultural expansion and intensification. However, there is a growing focus on the sustainability of the agricultural production system, especially in arid and semi-arid regions, where irrigation is required for competitive and profitable agriculture. The increase in irrigation water demand, the effects of climate change (that will decrease the availability of water for agriculture) and the growing concern about the negative impacts on the environment induced by irrigation (water bodies pollution, overexploitation of aquifers, farmland salinization, etc.) are calling for more effective and efficient use of irrigation water and other agricultural inputs, such as nutrients and pesticides.

Dr. Farida Dechmi  
*Guest Editor*





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