

Special Issue

Modernization and Optimization of Irrigation Systems

Message from the Guest Editors

Water is a fundamental natural resource for the economic and social development of any region. The production of food for the global population is a challenge to solve in coming years, especially bearing in mind the forecasted increase in population over the next 30 years. Under this scenario, irrigated agriculture plays a fundamental role. It is necessary to have modern and productive irrigations systems, where comprehensive and sustainable water management can be implemented. Technologies aimed at improving the efficiency of water use in irrigation are needed, given the context of climate change and low availability of water sources. We welcome novel research, reviews and opinion pieces covering all related topics including: increasing water use efficiency, analysis of distribution networks, optimization of irrigation subunits, application of hydraulic and energy optimization techniques, improvement of pumping systems, modernization of irrigation in areas of social interest, irrigation advisory services, application of renewable energies to irrigation systems and sustainable irrigation management.

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