

Special Issue

The Use and Management of Agricultural Irrigation Systems and Technologies

Message from the Guest Editors

Agricultural irrigation systems provide food to meet the growing demands of the global population. Irrigated agroecosystems under climate change face threats such as excessive runoff, soil erosion, salinization, water pollution, over-irrigation, and water shortages, among others. These challenges are mainly met using technology that provides instruments and methodologies to deal with major environmental challenges, saving water and increasing crop yield. Tailored management approaches of water resources for irrigation based on the application of agro-hydrological models and decision-support tools at different scales are effective approaches to maintaining reliable and flexible water allocation during periods of water shortage, preserving water for environmental requirements, and decreasing conflicts between water users. Innovative technologies and decision tools could provide secure solutions promoting actual and future resilient irrigation management in semi-arid and arid regions. This Special Issue offers an opportunity to gather studies and multidisciplinary approaches related to advanced technologies and innovative methodologies for irrigation management.

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