# 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 agrohydrological 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.

#### **Guest Editors**

Dr. Gerard Arbat

Department of Chemical and Agricultural Engineering and Technology, University of Girona, C/de Maria Aurèlia Capmany, 61. 17071 Girona, Spain

Dr. Daniele Masseroni

Departement of Agricultural and Environmental Sciences, University of Milan, Via Celoria 2, 20133 Milan, Italy

## Deadline for manuscript submissions

closed (5 June 2023)



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Agriculture (ISSN 2077-0472) is an international, crossdisciplinary and scholarly open access journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. Agriculture is published in an open access format – research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the public have unlimited and free access to the content as soon as it is published.

### Editor-in-Chief

### Prof. Dr. Les Copeland

Sydney Institute of Agriculture, School of Life and Environmental Sciences, The University of Sydney, Sydney, NSW 2006, Australia

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