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Smart Irrigation

Guest Editors:

**Prof. Dr. José Manuel
Monteiro Gonçalves**

Department of Agricultural
Sciences and Technologies,
College of Agriculture,
Polytechnic of Coimbra, 3045-601
Coimbra, Portugal

**Prof. Dr. José Manuel Torres
Farinha**

RCM2+ Research Centre for Asset
Management and Systems
Engineering, ISEC/IPC, Rua Pedro
Nunes, 3030-199 Coimbra,
Portugal

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Message from the Guest Editors

Special Issue will focus on recent developments in smart irrigation technology and practice, helping to clarify the potential, typologies, and limitations of information and digital technologies applied to the design and management of irrigation systems.

Following topics are encouraged: (1) Irrigation management, including scheduling optimization and systems operation control and automation aimed at water and energy savings; (2) crop management and fertigation, including crop local and remote sensing, controlled deficit irrigation, and yield optimization; (3) control on the use of non-conventional water for irrigation, such as treated wastewater or drainage water reuse by applying intelligent systems to monitor water quality, soil salinization and health risks; (4) digitalization of irrigation scheme management aiming to optimize maintenance and operation of equipment and infrastructures, including web services for integrated and real-time management of information and infrastructure operation; (5) geographic information systems -optimization logistics of the smart irrigation technology maintenance; (6) unmanned aerial vehicles that assist in smart irrigation technology.

