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Digital Transformation in the Agriculture Sector

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Message from the Guest Editors

The Food and Agricultural Organization (FAO) of the United Nations has expressed its concern because of growing population and urbanization which has impacted in the global food production. Digital technologies can improve traditional agriculture by reducing water and nutrient consumption, avoiding the need of large crop areas and adjusting environmental parameters as desired, among others. Traditionally, the agriculture sector has integrated digital technologies for managing irrigation systems or forecasting weather conditions, but recent developments in the area of communications, computation and artificial intelligence can further improve areas such as precision agriculture and spread automatic management of crops worldwide.

Nowadays, Information and Communication Technologies (ICT) developments and their evolution are transforming the paradigm of agriculture production management providing with more and more precise information allowing the agriculture industry to better understand the behavior and development of the agriculture productions and enabling farmers to meet the requirements that these productions need in each of their stages.

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Message from the Editor-in-Chief

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