

Special Issue

Application of Smart Technologies in Orchard Management

Message from the Guest Editors

From several years the role of the technology applied to the agriculture led to promising results. In fact, the smart technologies help the optimization of the use of the input such as water and fertilizers for the increasing sustainability of the orchard. In a contest of climate change, it is important to develop and test smart technology solutions for increasing of the production. In addition, IoT-enabled sensor networks and aerial drones generate high-resolution spatial-temporal data, empowering growers with actionable insights for proactive management. This Special Issue focuses on the role that smart technology in the production of high-quality food and continuously over time. For this reason, it welcomes highly quality studies includes, but is not limited to the follow scope:

- Computer vision for fruit detection and yield estimation;
- AI-driven microclimate and soil health monitoring systems;
- IoT-based pest and disease monitoring models;
- AI-optimized irrigation and nutrient delivery systems;
- Scalable digital for orchard management.

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Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. *Agriculture* is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

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