



## Precision Viticulture for Vineyard Management

Guest Editor:

**Dr. Rita Perria**

CREA–Research Centre for  
Viticulture and Enology, Viale  
Santa Margherita, 80-52100  
Arezzo, Italy

Deadline for manuscript  
submissions:

**31 August 2024**

### Message from the Guest Editor

Viticulture plays a crucial role in world agricultural production and is considered a production with a great economic impact in wine-growing countries. This Special Issue will focus on trends in new technologies in precision viticulture, which seeks to use information technology to support vineyard operations and management, such as soil management, fertilizer use, water resource management, pesticide application, etc. Vineyard monitoring through precision viticulture technologies provides temporal and spatial information related to environmental parameters and crop characteristics. The information is collected, processed, and analyzed through various digital technologies. Among them, information and communication technologies (ICTs), decision support systems (DSSs), variable rate mechanization (VRT), remote and proximal sensors, and deep learning can help optimize vineyard management, saving resources, improving crop quantity and quality, and increasing sustainability. All of these technologies have a number of potential applications in precision viticulture.





an Open Access Journal by MDPI

## **Editor-in-Chief**

### **Prof. Dr. Peter Langridge**

School of Agriculture, Food and  
Wine, University of Adelaide,  
Urrbrae, SA 5064, Australia

## **Message from the Editor-in-Chief**

*Agronomy* draws together researchers from diverse areas of agricultural research with a common aim of enhancing agricultural productivity globally. The journal provides unlimited free access to all those interested in advancing agricultural science from both the research and general community. Papers are released immediately after acceptance through the internet. *Agronomy* is supported by our authors and their institutes through low article processing charges (APC) for accepted papers. We hope you will support the journal by becoming one of our authors.

## **Author Benefits**

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubAg, AGRIS, and other databases.

**Journal Rank:** JCR - Q1 (*Agronomy*) / CiteScore - Q1 (*Agronomy and Crop Science*)

## **Contact Us**

---

*Agronomy* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/agronomy](http://mdpi.com/journal/agronomy)  
[agronomy@mdpi.com](mailto:agronomy@mdpi.com)  
[X@Agronomy\\_Mdpi](https://twitter.com/Agronomy_Mdpi)