

Special Issue

Precision Viticulture for Vineyard Management

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.

Guest Editor

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