

Special Issue

Application of Intelligent Technology and Equipment in Horticultural Production

Message from the Guest Editors

Modern horticultural production faces unprecedented challenges, including the need to enhance efficiency, reduce resource consumption, and address labor shortages, while meeting the growing demand for sustainable, high-quality produce. Intelligent technologies and equipment—such as IoT sensors, artificial intelligence (AI), machine learning, and automated systems—are revolutionizing horticulture by enabling precision agriculture and improving yield. To harness the full potential of smart technologies in horticulture, interdisciplinary research is essential. This includes advancements in real-time monitoring, data-driven decision-making, and the integration of these systems into diverse production environments. Furthermore, addressing challenges such as technology adoption barriers and cost-effectiveness remains critical for widespread implementation. This Special Issue aims to explore cutting-edge developments, challenges, and opportunities in the application of intelligent technologies and equipment across horticultural production systems. We welcome original research articles, reviews that bridge the gap between technological innovation and practical horticultural applications.

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Message from the Editor-in-Chief

Horticultural plants and their products provide sustenance, health, and beauty. A confluence of factors is putting increasing pressure on horticultural production to evolve, and innovative research is addressing these challenges. *Horticulturae* provides a venue to communicate research results in a rapid manner with open access, allowing everyone the opportunity to stay abreast of leading research addressing horticulture. I invite you to consider publishing the results of your research in this high quality, peer-reviewed journal.

Editor-in-Chief

Prof. Dr. Luigi De Bellis
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Technologies (DiSTeBA), Salento University, Lecce, Italy

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