



Optical Engineering Applications for Smart Agriculture

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Message from the Guest Editor

Over the next few decades, as the need for food security and safety will significantly grow, there is a need to adopt novel, environmentally friendly, and rapid technologies to enhance the quantity, quality, and safety of agriproducts. Optical-based technologies such as lasers, imaging, spectroscopy and spectral imaging have proven to have the potential to offer practical solutions for promoting sustainable agriculture.

This Special Issue is intended to serve as a platform for sharing research findings and insights. Research areas may include:

- Application of optical-based techniques in enhancing crop germination, growth and development.
- Application of optical-based techniques in tracking the growth of agri-food products.
- Application of optical-based techniques in assessing the health of agri-food products.
- Application of optical-based techniques in pest monitoring.
- Application of optical-based techniques in improving the safety of agri-food products.
- Application of optical-based techniques in precision irrigation.
- Application of optical-based techniques in field resource management and smart farming.

Any questions, please ask Mark <mark.huang@mdpi.com>.





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Message from the Editor-in-Chief

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