

## Special Issue

# Sensing and Monitoring in Modern Agriculture: New Technologies for Improving Crop Management

### Message from the Guest Editors

The global challenges posed by climate change, population growth, and the need for sustainable resource management have intensified the demand for innovative solutions in agriculture. Modern crop management must strike a delicate balance between increasing productivity and minimizing environmental impact. In this context, sensing and monitoring technologies have emerged as pivotal tools to enable precision agriculture, optimize resource use, and promote sustainability across agricultural systems. This Special Issue of *AgriEngineering* seeks to provide a platform for groundbreaking research and innovative applications in sensing and monitoring technologies that address these challenges. By bringing together interdisciplinary contributions, we aim to highlight the role of emerging technologies in transforming agricultural practices into more efficient, sustainable, and resilient systems. This Special Issue is an opportunity to bring together researchers, practitioners, and industry professionals to explore how these technologies can shape the future of sustainable agriculture.

### Guest Editors

Dr. Flavio Capraro

Instituto de Automática (INAUT), UNSJ-CONICET, Av. Lib. Gral. San Martín 1109 (oeste), San Juan J5400ARL, Argentina

Dr. Santiago Tosetti

Instituto de Automática, UNSJ-CONICET, Av. Lib. Gral. San Martín 1109 (oeste), San Juan J5400ARL, Argentina

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*AgriEngineering*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[agriengineering@mdpi.com](mailto:agriengineering@mdpi.com)

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### Message from the Editor-in-Chief

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Dr. Mathew G. Pelletier

Retired Scientist from Agricultural Research Service, United States  
Department of Agriculture, Lubbock, TX, USA

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