



## Smart Farming and Bioenergy Feedstock Crops

Guest Editors:

**Dr. Shivendra Kumar**

Department of Agronomy, Iowa State University, 716 Farm House Ln, Ames, IA 50011, USA

**Dr. Sudeep S. Sidhu**

Department of Agronomy, University of Florida, North Florida Research and Education Center, 155 Research Road, Quincy, FL 32351, USA

**Dr. Ian M. Small**

Department of Plant Pathology, University of Florida, North Florida Research and Education Center, 155 Research Road, Quincy, FL 32351, USA

Deadline for manuscript submissions:

**closed (30 May 2022)**

### Message from the Guest Editors

Agriculture has seen many revolutions starting from the domestication of plants and animals, practicing crop rotation and mechanization and “green revolution”. Currently, agriculture is going through a new phase/era of technical advancement which involves the use of information and technology for better yield and productivity. Smart farming has enabled the use of robotic vehicles for various purposes such as weeding, fertilization, biomass and yield estimation, detection of diseases and even harvesting of fruits. Smart farming is going to make agriculture more profitable and less labor-intensive and will reduce the risk of crop loss. Although technical advancement in agriculture is taking place, it still has certain limitations such as the high cost of adoption and the time to develop site- and crop-specific technology. Bioenergy feedstocks have gained importance in recent years because of their renewable nature and the increasing cost and limited reserve of non-renewable fuel sources. Use of smart farming for the advancement of bioenergy feedstock crops will play an important role in their overall adoption and in meeting our fuel and energy needs.





an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Marc A. Rosen**

Faculty of Engineering and  
Applied Science, University of  
Ontario Institute of Technology,  
Oshawa, ON L1G 0C5, Canada

## Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

## Author Benefits

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

**High Visibility:** indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, AGRIS, RePEc, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q2 (*Environmental Studies*) / CiteScore - Q1 (Geography, Planning and Development)

## Contact Us

---

*Sustainability* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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

[mdpi.com/journal/sustainability](http://mdpi.com/journal/sustainability)  
[sustainability@mdpi.com](mailto:sustainability@mdpi.com)  
X@Sus\_MDPI