# **Special Issue**

# 4D Crop and Livestock Monitoring in Agriculture

## Message from the Guest Editor

High spatial and temporal data collection from proximal and remote sensing platforms has increased dramatically in the past decade. What we have come to call "4-D monitoring" has the potential to provide farmers actionable information for improved crop and livestock management by determining the spatiotemporal relationships between crop and livestock production and the abiotic and biotic stresses that threaten sustainable agriculture. Similar sensing platforms are used to assist with high throughput phenotyping (HTP) of crop genotypes. By measuring the phenotypic traits response to controlled genotypes and environmental conditions, research scientists select for desirable traits at a much faster rate than was previously possible. This Special Issue looks to bring together cutting edge research on the questions of not just the technology being developed and used to collect spatiotemporal crop, livestock, pest, weather, and soils data (4-D monitoring), but to ask the questions that can utilize the rapid increase in data collection, analysis, and prediction to improve sustainable agricultural production.

#### **Guest Editor**

Prof. Dr. Glen C. Rains

Department of Entomology, University of Georgia, Athens, GA 30602, USA

## Deadline for manuscript submissions

closed (28 February 2022)



an Open Access Journal by MDPI

Impact Factor 3.0 CiteScore 4.7



mdpi.com/si/84389

AgriEngineering
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
agriengineering@mdpi.com

mdpi.com/journal/agriengineering





an Open Access Journal by MDPI

Impact Factor 3.0 CiteScore 4.7



## **About the Journal**

## Message from the Editor-in-Chief

#### Editor-in-Chief

Dr. Mathew G. Pelletier

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

#### **Author Benefits**

### **High Visibility:**

indexed within Scopus, ESCI (Web of Science), PubAg, FSTA, AGRIS, CAPlus / SciFinder, and other databases.

#### **Journal Rank:**

JCR - Q2 (Agricultural Engineering) / CiteScore - Q1 (Horticulture)

## **Rapid Publication:**

manuscripts are peer-reviewed and a first decision is provided to authors approximately 20.6 days after submission; acceptance to publication is undertaken in 5.4 days (median values for papers published in this journal in the first half of 2025).

