



## Applications of Deep Learning Techniques in Agronomy

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### Message from the Guest Editor

According to the United Nations predictions, the world population will increase by 2 billion by 2050. However, our current rates of improvements in food production fall far behind the population growth. To this end, new revolutionized techniques such as deep/machine learning are necessitated as one of the potential solutions.

We call for contributions that focus on leveraging artificial intelligence, machine learning, IOT sensors, remote/proximal sensing, and other new/emerging techniques to improve crop yields, increase agricultural efficiencies, and reduce food production costs. Potential topics include, but are not limited to, the following

1. Deep learning in high-throughput phenotyping
2. Crop yield prediction through deep and/or machine learning and various data streams
3. Drones and deep learning in agriculture monitoring
4. Effective irrigation through deep and machine learning
5. AI-based soil chemical analysis and fertilization
6. Crop disease mapping and management
7. Data analytics for decision support





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## Message from the Editor-in-Chief

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