

AGRONOMY RESEARCH

GEOMETRIC DEEP LEARNING IN AGRICULTURE:
PERSPECTIVES, CHALLENGES AND OPPORTUNITIES

ABOUT THE SPECIAL ISSUE

Agriculture is an area where a lot of smart work is needed. Agriculture plays a very pivotal role in the global economy of any country. Due to the increase in the population, there is constant pressure on the agricultural system to improve the productivity of the crops. So, from the same land it is not possible to improve the productivity without using the smart solutions. Some emerging technologies need to be a part of agriculture study. One of the most effective emerging technologies is Geometric Deep Learning.

Artificial techniques are being used in the agricultural sector to increase the accuracy and to find solutions to the problems. Machine Learning, Deep Learning, Internet of Things, Data Analytic etc are the some domain of Artificial Intelligence. Geometric Deep Learning is a part of Deep Learning Technique. To determine the performance of geometric deep learning models various mathematical and statistical models need be investigated. Once the learning process is completed, then the model can then be used to make an assumption, to classify and to test data. This is achieved after gaining the experience of the training process. Authors are suggested to submit papers on applications of Geometric Learning in Agriculture.

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TOPICS

The topics covered in this special issue include, but are not limited to:

- Geometric Deep Learning based Agriculture
- Role of Geometric Deep learning in agriculture
- Component of Geometric Deep Learning in basic predictions
- Role of Geometric Deep learning in soil monitoring and management
- Geometric Deep Learning used for crop quality prediction
- Geometric Deep Learning used for Yield prediction
- Machine learning technique for livestock management
- Animal weed management methods with Artificial Intelligence
- Economical changes in Traditional Agriculture Vs Geometric Deep Learning based Agriculture
- Modeling Techniques used in Smart Agriculture
- Daily marketing Price prediction
- Using Geometric Deep Learning for Image-Based Plant Disease Detection
- Current and Prospective Methods for Plant Disease Detection
- Use of Different Technologies of Image Recognition in Agriculture

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