Special Issue

Machine Learning Applications in Digital Agriculture

Message from the Guest Editors

Machine learning—the scientific field that gives machines the ability to learn without being strictly programmed—can make agriculture more efficient and effective. An increasing amount of sophisticated data, from remote sensing and especially from proximal sensing, make it possible to bridge the gap between data and decisions within agricultural planning. On-demand representative sampling and modeling of useful soil information in an unprecedented resolution leads to an improvement in the decision-making processes of, for example, liming, irrigation, fertilization, higher productivity, reduced waste in food, and biofuel production. This Special Issue on Machine Learning Applications in Digital Agriculture provides international coverage of advances in the development and application of machine learning for solving problems in agriculture disciplines like soil and water management. Novel methods, new applications, comparative analyses of models, case studies, and state-of-the-art review papers on topics pertaining to advances in the use of machine learning in agriculture are particularly welcomed.

Guest Editors

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