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Mapping of Soil Organic Matter (SOM) using Hyperspectral Imaging and Non-imaging Data-A Review

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Abstract

Soil has healthy microbial population, and then the indication of the soil is rich in Soil Organic Matter (SOM). It is very beneficial for farmers to improve the production of crops. The detection and mapping of Soil Organic Matter from soil is vital task to enhance the quality of soil. An achievement of objectives and goal of ASD Fieldspec4 Spectroradiometer (350-2500nm) is preferred with less effort and time with more accuracy. In this paper we focus on the methods and techniques i.e. Partial Least Square Regression (PLSR) and Artificial Neural Network (ANN) modelling for mapping of Soil Organic Matter. For use of soil and evaluation purpose the mapping of soil organic matter is noble importance which is directly related to food production. This study uses Vis-NIR spectroscopy to assess and map the soil organic matter content from soil.

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# Mapping of Soil Organic Matter (SOM) using Hyperspectral Imaging and Non-imaging Data - A Review

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