Abstract

The distribution of soil classes is an important factor in agricultural soils. In order to generate the soil classification, fuzzy soil classifications were developed to provide the means to characterize and quantify the soil classes. This paper presents an index of fuzzy soil classification generated by Fuzzy C-means classification. The ability of classification of the soils is tested with a Soil database. Fuzzy c-means approach is also capable of handling the uncertainty existing in soil parameters. As a result, fuzzy c-means clustering can be successfully applied to classify soils.

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Index Terms

Computer Science Fuzzy Systems

Key words
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Soil Classification

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Fuzzy