

Impact of features on classification accuracy of IRS LISS-III images using artificial neural network

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ABSTRACT

The proposed research paper uses the artificial neural network with back propagation of error is used to classify the LISS-III satellite images. It is a multi-spectral images which are stacked together and there different feature are used for the classification. In this classification the comparative study is performed on two different types of training sets which are used for the classification training. The First training set consist of the R, G, B colour value of the image in this case accuracy and kappa coefficient was 95% and 0.9331 respectively. Second training set consist of R, G, B, mean, mode, median, variance and standard deviation of colour feature and in this case the accuracy and kappa coefficient was 97% and 0.9652 respectively. So after this study and comparative analysis it is observed and concluded that there is the impact of features on the classification. If the number features are less then there is fall in the classification accuracy but increase in the classification accuracy with respect to increase in the number of features in the training sets.

Keywords:- LISS-III satellite Image, mean, mode, median, variance, standard deviation, neural network, and classification.

1. INTRODUCTION

Classification is one of the data mining methods which are used to classify the object into predefined group. It is the most frequently used decision making tasks of human activity. A classification problem occurs when an object needs to be assigned into a predefined group or class based on a number of observed attributes related to that object. The classification also plays very important role in the remote sensing and satellite image classification. There are number of application i.e. encompassing reconnaissance creation of mapping products for military and civil application, evaluation of environmental damage, monitoring of land use and land cover urban planning, growth regulation, soil assessment and crop yield appraisal where image classification plays major role to study and monitor all these things[1]. Due to the advancement in the area of remote sensing, data mining tools, digital image processing and high computational computers there are number of students, academicians, research scholars and different organizations are attracted towards the remote sensing and the different application of remote sensing. They are try to find out different ways through which they can use the satellite images for various purposes either related to different resource evaluation, analysis, planning, management or monitoring purpose. So, in all these application one important application of satellite image is land use and land cover classification. Land use and land cover classification plays very important role for the development of thematic map and to study the area covered by different resources. The satellite based land use and land cover classification plays important role to map the different resources which saves the time of doing so much survey and field work. It also covers those area where the survey and field work cannot easily perform or difficult to perform. The land use and land cover classified images are also used to study the change detection which are carried out by the human or the nature. We can also study the impact of human settlement and its impact on the natural resources. There are number of classification techniques are available i.e. KNN (K-nearest neighbour), Decision tree, ANN (artificial neural network), SVM (Support vector machine), Bayesian classifier and Discriminate base classification. All these classification techniques are basically classified in two categories which are known as supervised and unsupervised classification. An unsupervised classification technique, in which the objects are classified based on its similarity which is called as cluster. On the other hand in supervised classification technique classification performed based on the training set which is called as the learning from the example. Here, in this paper artificial neural network is design to classify the IRS-P6 LISS-III satellite image for various land use and land cover classification. The artificial neural network with back propagation of error applies the supervised classification which requires the training set of data. So, here in the paper the artificial neural network based comparative analysis is performed and it is tried to find out what is the impact of feature in the case of supervised classification. In the comparative study of ANN based classification there are two types of samples are used in which one samples has three feature where as in the second one there are eight features are used for the training purposes. So, with comparative analysis of ANN based classification, it is found that there is the impact of attribute on the classification because the

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