Abstract

Remote Sensing is a multi-disciplinary technique for image acquisition and measurement of information. Remote sensing analysis paved way for satellite image classification which facilitates the image interpretation of large amount of data. Satellite Images covers large geographical span and results in the exploitation of huge information which includes classifying into different sectors. Different classification algorithms exist for image classification, but with the wide range of applications an algorithm with improved performance in terms of accuracy is required. Here in this paper we analyze different methods of supervised classification, different post classification techniques, spectral contextual classification and provide a comparative study on their efficiency.

References

6. Pooja Kamavisdar, Sonam Saluja, and Sonu Agrawal, A Survey on Image Classification Approaches and Techniques, in Proc. IJARCCE.
7. Minakshi Kumar DIGITAL IMAGE PROCESSING Indian Institute of Remote Sensing, Dehra Dun
8. B.K. Mayanka; Classification of Remote Sensing data using KNN method, Journal Of Information, Knowledge And Research In Electronics And Communication Engineering( Volume 02, Issue 02)
15. E. Sarhan, E. Khalifa, and A. M. Nabil, Post classification using cellular automata for Landsat images in developing countries, in Proc. ICIIP
18. M. Espinola et al., Cellular automata applied in remote sensing to implement contextual pseudo-fuzzy classification, in Proc. 9th Int. Conf. ACRI, vol. 6350, Lecture Notes in Computer Science, 2010, pp. 312321
19. ERIK MOHN NILS L. HJORT, AND GEIR 0. STORVIK. “ A Simulation Study of Some Contextual Classification Methods For Remotely Sensed Data”, Trans on geosciences and
Supervised Techniques and Approaches for Satellite Image Classification


Index Terms

Computer Science Image Processing

Keywords

Classification, Supervised classifiers, Contextual classification, Cellular Automata