A hybrid FPAB/BBO Algorithm for Satellite Image Classification

Abstract

In the past years, remote sensing has been used for the classification of satellite image on a very large scale. This paper deals with image classification by using swarm computing technique. In this work, we use a new swarm data clustering method based upon flower pollination by artificial bees to cluster the satellite image pixels. The aim of clustering is to separate a set of data points into self-similar groups. Those clusters will be further classified using Biogeography Based Optimization. The results indicate that highly accurate classification of the satellite image is obtained by using the proposed algorithm.

Reference

- Bonabeau E., Dorigo M., and Theraulaz G. (`999), “Swarm Intelligence: From natural to
A hybrid FPAB/BBO Algorithm for Satellite Image Classification

artificial systems”, Oxford University press, NY, pp.1-25.
- The MATLAB ver 7, The MathWorks, Inc.

Index Terms

Computer Science
Algorithms

Key words
    FPAB
    Biogeography
    Based Optimization
Satellite Image Classification