Abstract

“Object Segregation in Satellite Images” deals with the aerial and satellite images to calculate the open space area. They are complex to analyze high resolution satellite image. The satellite
A Comparative Study on Object Segregation in Satellite Images using PSO and K-Means

captures the entire image including the open space, buildings, cars, peoples, etc. This automatic extraction algorithm uses some filters and segmentations and grouping is applying on satellite images. The result images are used to calculate the total available open space area and the built up area. This paper deals with the segregation of aerial and satellite images to manipulate the objects in open space area object segregation is necessary for remote sensing applications. The remote sensing is used for manipulate the area of the land mass according to time. Satellite image can be segregated in respected time interval for measuring the area land mass. In this paper a comparison study has been made between various algorithms like Particle Swarm Optimization (PSO), K-Means Clustering Algorithm.

Reference

- Swagatam Das, Ajith Abraham and Subir Kumar Sarkar, A Hybrid Rough Set – Particle Swarm Algorithm for Image Pixel Classification, IITA (Institute of Information Technology
- http://www.mathworks.com/
- V.K.Panchal, Parminder Singh, Navdeep Kaur & Harish Kundra Biogeography based Satellite Image Classification
- Harish, Puja & Dr.V.K Panchal Cross country path finding using Hybrid approach of BBO and ACO
- Navdeep Kaur, Johal Samandeep & Singh Harish Kundra A hybrid FPAB/BBO Algorithm for satellite image classification.
- Swarm intelligence - James Kennedy
- GoogleEarth

Index Terms

Computer Science

Image Processing
Key words

Satellite images  Filtration  Segmentation
Particle

Swarm Optimization

Image Segmentation

K means