Abstract

Unsupervised classification algorithm based on clonal selection principle named Unsupervised Clonal Selection Classification (UCSC) is proposed in this paper. The new proposed algorithm is data driven and self-adaptive, it adjusts its parameters to the data to make the classification operation as fast as possible. The performance of UCSC is evaluated by comparing it with the well known K-means algorithm using several artificial and real-life data sets. The experiments show that the proposed UCSC algorithm is more reliable and has high classification precision comparing to traditional classification methods such as K-means.

Reference

Unsupervised Classification Using Immune Algorithm


Index Terms

Computer Science Pattern Recognition

Key words

Artificial Immune Systems
Clonal Selection Algorithms
Clustering
K-means Algorithm