A Hybrid Genetic Fuzzy k-modes and Artificial Bee Colony Approach for Clustering YouTube Data

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Abstract

The genetic fuzzy k-modes algorithm introduced by G.gan, J. Wu and z. Yang. The algorithm is proven to be very effective for cluster structures retrieved from categorical datasets. However, the algorithm is prone to fall into global optima when it is required to be implementing on streaming datasets like social media data. In order to search for suitable approach to overcome the global optimal challenge the hybrid approach of genetic fuzzy k-modes and artificial bee colony is being proposed. Experiments on YouTube datasets are carried out to illustrate the performance of proposed algorithm.

References


Index Terms

Computer Science
Fuzzy Systems

Keywords

Clustering, genetic algorithms, Categorical data, YouTube, artificial bee colony