

# Abstract

**Sherin M. Youssef**

## **a new fuzzy evolutionary-based data clustering using fuzzy particle swarm optimization**

in this paper, a new fuzzy evolutionary-based particle swarm optimization algorithm is proposed for multi-dimensional data clustering. it is more adaptive towards problems with dynamic changed information. numerous experiments will be conducted using both synthetic real datasets to evaluate the efficiency of the proposed model. cluster validity approaches are used to quantitatively evaluate the results of the clustering algorithm.