Abstract

Sherin M. Youssef

dynamically adaptive data clustering using intelligent swarm-like agents

data clustering plays an important role in effectively navigating, summarizing, organizing information. Inspired by the self-organized behavior of bird flocks, a new dynamic clustering approach based on particle swarm optimization is proposed. We introduced the particle swarm-based data clustering (psdc) approach, new particle swarm-like agents for multidimensional data clustering. The distributed-cooperative behavior of these agents was so powerful to explore the solution space effectively.