Abstract

Quality mapping on education can be useful information to evaluate how well the quality of education is attained in each school. Solutions to overcome this problem required an information system for mapping the quality of education based on the five categories of quality achievement levels set by the government of Indonesia. This study was conducted using 200 school datasets in the city of Semarang. The study used the test parameters of input 20 particles, 40 particles, 80 particles and 160 particles. Parameters were tested using PSO and PSO + k-Means methods. As a result, the use of the 20 particles parameter provides an optimal solution in grouping data at a central point.

References

Hybrid Particle Swarm Optimization and k-Means Clustering for Education Quality Mapping


Index Terms

Computer Science

Information Systems
Keywords

Information system, clustering, particle swarm optimization, k-Means clustering