Abstract

Mining hidden pattern from existing databases is an important topic in field of data mining. The knowledge obtained from these databases is used in different applications like in market basket analysis. Association Rules are important to discover the relationships among the attributes in a database. In general the rules generated by Association Rule Mining technique do not consider the negative occurrences of attributes in them, but by focusing on infrequent items generated in system we can predict the rules which contains negative attributes. This paper proposes an improved algorithm NAPSO based on Particle Swarm Optimization. The algorithm improves result provided by apriori algorithm.
- M. Gan, M. Y. Zhang, and Sh. W. Wang, &quot;One Extended Form For Negative Association rules and the Corresponding Mining Algorithm&quot;, Proc. Of the 4-th Intl. Conf. on Machine Learning and Cybernetics, Guangzhou, pp. 1716-1721, 2005.
- Chi-Yang Tsai, I-Wei Kao &quot;Particle swarm optimization with selective particle regeneration for data clustering&quot;. Expert Systems with Applications 2010.
Index Terms

Computer Science  
Soft Computing

Keywords

Association Rule Mining (arm)  
Data Mining (dm)  
Negative Association Rule (nar)  
Particle Swarm Optimization (pso)