Abstract

The research presented in this paper explores the embedding of context awareness into a data mining method called clustering. Adding context to traditional data mining methods has been known to improve results of information retrieval systems. The approach used for this task is that of Multi Objective Evolutionary Algorithms. Evolutionary algorithms imitate the biological process of natural selection, also known as survival of the fittest, to solve computational problems. It is a heuristic method that finds approximate solutions. The solutions are generally optimized with respect to some system objective. However, many practical problems require optimization in more than one and possibly conflicting objectives. Multi Objective Evolutionary Algorithms (MOEA) are used for this purpose.

References


Index Terms

Computer Science Embedded Systems

Keywords

Multi Objective Optimization, Evolutionary Algorithms, Data Mining, Clustering, Context Awareness