

# **IMPLEMENTATION AND EVALUATION OF K-MEANS, KOHONEN-SOM, AND HAC DATA MINING ALGORITHMS BASED ON CLUSTERING**

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## **ABSTRACT**

With the development of information technology and computer science, high-capacity data appear in our lives. In order to help people analyzing and digging out useful information, the generation and application of data mining technology seem so significance. Clustering is the mostly used method of data mining. Clustering can be used for describing and analyzing of data. In this research, we use clustering and classification methods to mine the data and extract the valuable information by using hybrid algorithms or combination of three algorithms and it produce the better results than the traditional algorithms and compare it by applying on data sets. After comparing these three methods effectively, i can reflect data characters and potential rules syllabify. This work will be presents a new and improves results from large-scale datasets.

**KEYWORDS:** Clustering, K-Means, HAC, Data Mining, Kohonen-SOM