

CLUSTER ANALYSIS – AN OVERVIEW

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ABSTRACT

Clustering analysis, also called segmentation analysis or taxonomy analysis, aims to identify homogeneous objects into a set of groups, named clusters, by given criteria. Clustering is a very important technique of knowledge discovery for human beings. It has a long history and can be traced back to the times of Aristotle. These days; cluster analysis is mainly conducted on computers to deal with very large-scale and complex datasets. With the development of computer-based techniques, clustering has been widely used in data mining, ranging from web mining, image processing, machine learning, artificial intelligence, pattern recognition, social network analysis, bio-informatics, geography, geology, biology, psychology, sociology, customers behaviour analysis, marketing to e-business and other fields.

KEYWORDS: Cluster Analysis, K Mean, Hierarchical, Genes, Microdata, Problems