



Asymptotic Properties of Univariate Population K-Means Clusters (Classic Reprint) (Paperback)

By M Anthony Wong

Forgotten Books, United States, 2018. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from Asymptotic Properties of Univariate Population K-Means Clusters The k - means method has been widely used in clustering applications (see Blashfield and Aldenderfer, and the efficient computational algorithm given in Hartigan and Wong (1979) has been included in the multivariate programs bmdpkm of the bmdp statistical package. The properties of sample k-means clusters have also been studied by several investigators. In Fisher and Fisher and Van Ness it is shown that k-means clusters are convex, i.e., if an observation is a weighted average of observations in a cluster, the observation is also in the cluster. And the asymptotic convergence (as $N \rightarrow \infty$) of the sample k-means clusters to the population k - means cluster for fixed number of clusters k has been studied by MacQueen, Hartigan and Pollard in which conditions that ensure the almost sure convergence of the set of means of the k-means clusters can be found. However, little work has been done in examining the properties of population k-means clusters, especially when k becomes large. In Dalenius it is shown that the cut - point between...



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