ABSTRACT

Sea transportation is a transportation system that contributes greatly to national development, both as a supporter and stimulator of economic growth and various other development sectors. The need for sea transportation services is increasing, both in number and in kind. Efforts in the development of sea transportation facilities carried out to date are a reflection of overcoming increasing demand, therefore it is necessary to group data to review the rate of growth in the number of sea transportation in each province in Indonesia.

Clustering has been widely applied in various fields, one of which is the method often used, namely K-Means Cluster Analysis. The K-Means Cluster Analysis method is quite effective to be applied in the process of classifying characteristics of research objects. The K-Means algorithm is also not affected by the order of objects used and also the cluster center is determined randomly from one object at the beginning of the calculation. The system to be built in this study is a system with the main function of grouping passengers and ships on sea transport in Indonesia and displaying the results of the data groupings which are expected to facilitate related agencies in reviewing the growth of sea transportation.

Keyword : *Clustering, K-Means, Sea Transport*