

***CLUSTERING OFF HAJJ IN INDONESIA USE KOHONEN SELF
ORGANIZING MAPS (SOM)
(Case Study: The Organization of Hajj in Indonesia 2017)***

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ABSTRACK

Islam is a religion that is practised by the majority of the population of Indonesia. In 2010 reached 238 million out of a total population of Indonesia in that year, a total of 2017 million or 87% converted to islam. The Hajj is required of worship that Muslims, especially for those who are wise, and is capable of reaching puberty. So the community's interests to carry out the pilgrimage is very high. Research related pilgrims during this time more researching about the factors affecting the satisfaction of pilgrims against group guidance Hajj or test the level of satisfaction of Government Ministry against Ministry of Hajj when in Makkah. In this study implements the kohonen Self Organizing Maps (SOM) as well as the mapping of each region using ArcGis. The purpose of this research is to know the characteristics of each region in the province in Indonesia. The indicator used is the number of yan pilgrims, waiting time of Hajj, Hajj quota, the human development index (HDI), GRP, gini index, the poor population, the number of places of worship and muslim population. Determining the number of clusters is done by doing cluster validation which is internal validation after 4000 times of iterations, they form cluster 1 which is consisted of 1 provinces, cluster 2 with 8 provinces, cluster 3 with 4 provinces and cluster 3 with 21 provinces

Keyword : *Self Organizing Maps (SOM), Internal Validation, Cluster, Hajj*