

**ANALISIS SEGMENTASI DAN IDENTIFIKASI FAKTOR-FAKTOR  
YANG MEMPENGARUHI TINGKAT KEMISKINAN DI PROVINSI  
PAPUA MENGGUNAKAN ALGORITMA SELF-ORGANIZING MAPS  
(SOMs) KOHONEN DAN REGRESI LOGISTIK ORDINAL**

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**ABSTRACT**

*Poverty is one of the problems that is mostly faced by many developing countries. Indonesia is one of the developing countries that is facing the poverty. Each province in Indonesia has different percentage of poor society. Based on the percentage data of poor society in 2017, it is found that Papua province is the highest percentage of poverty that is 27.76%. In accordance to the problem, it is important to know that because of the poverty condition each district/city in Papua province, the societies are supposed to help the government in determining the policy. The purpose of this analysis is to know the characteristics of the factors that are influential to the poverty in each cluster of poverty formed. The analyses used this research are: descriptive analysis, that is to identify the common description of each variable; Kohonen algorithm self-organizing Maps (MOP), that is to classify the clusters of poverty; then from the clusters formed, it will be continued by doing the ordinal logistic regression analysis to identify which factor that significantly influences the level of poverty in each cluster. The results of this analysis are, it is found that there are four clusters of poverty. In the cluster one, there are 15 districts that are including the highest level of poverty; In the cluster two, there are 8 districts that are including the middle level of poverty; in the cluster three, there are 5 districts/cities that are including the very low level of poverty or rich; and in the four cluster, there is only one district that is including the low level of poverty. From the ordinal logistic regression analysis, it is found that the factors influencing poverty are PDRB, TPT, population density, Life Expectancy (AHH), TPAK, and TPT. Overall, those factors influence the poverty levels in Papua province. The attempt that must be done by the government to decrease the poverty is by increasing the human developing index.*

**Keywords:** *poverty, cluster, Kohonen Self-Organizing Maps (SOM), Ordinal Logistic Regression, poverty mapping.*