Abstract

Strategic planning is very influential on the successful implementation of a program / activity. Strategic planning can be in the form of prioritizing and forecasting the magnitude of the problem as the basis for determining the strategic step either in the allocation of cost and human resources. After the calculation of fuzzy TOPSIS with alternative is nineteen sub districts in Semarang Regency and the decision criteria in the form of the number of people living with HIV and thirteen other supporting criteria then obtained Bandungan District as the first priority. Exponential smoothing method is used to predict the number of people living with HIV in the period 2017 with the value of constant smoothing (α) of 0.61. Selected smoothing constants are obtained from the average Smoothing constants that produce the smallest MSE values in each sub-district. Development can be done with alternative extensions and addition of number of criteria on TOPSIS fuzzy calculation and use of causal forecasting method to replace exponential smoothing method due to HIV transmission depends on several things both quantitative and qualitative.
References


13. Infodatin (Republic Indonesia Ministry of Health Data and Information Center), 2016. Situation and analysis of HIV AIDS in Indonesia, Ministry of Health, Jakarta


25. Semarang Regency, Semarang Regency Regulation No. 3 Year 2010 dated March 23, 2010 on the Management of Human Immunodeficiency Virus (HIV) and Acquired Immuno Deficiency Syndrome (AIDS) In Semarang Regency


29. Widoyono, 2011, Tropical Diseases: Epidemiology, Transmission, Prevention & Eradication, Erlangga, Jakarta

30. Wulandari, F.T., 2013, Fuzzy TOPSIS Implementation In Business Strategy Planning, Magistra No. 85 Th. XXV


Index Terms

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Keywords

Fuzzy TOPSIS, exponential smoothing, HIV programs, forecasting, decision making, priorities