

PERBANDINGAN PENENTUAN POTENSI PENDAPATAN DENGAN METODE SIMPLE MOVING AVERAGE DAN WEIGHTED MOVING AVERAGE PADA KOPERASI PT. DES TEKNOLOGI INFORMASI

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ABSTRAK

Koperasi di PT. DES TEKNOLOGI INFORMASI Semarang adalah unit kerja dari PT. DES TEKNOLOGI INFORMASI Semarang yang berfungsi sebagai koperasi yang melayani para karyawannya. Ketidakpastian dalam menentukan target pendapatan bunga pinjaman tiap periodenya menyebabkan adanya ketidakstabilan pendapatan bunga pinjaman, sehingga ada kendala dalam menentukan pendapatan bunga tiap periode. Maka dari itu untuk mengatasi permasalahan diatas dilakukan penelitian dengan metode Simple Moving Averages (SMA) dan Weighted Moving Averages (WMA) guna meramalkan pendapatan bunga pinjaman tiap periode. Dari kedua metode tersebut dilakukan pengujian akurasi peramalan dengan Mean Absolute Deviation (MAD), Mean Square Error (MSE) dan Mean Absolute Percentage Error (MAPE), sehingga diperoleh metode mana yang sesuai dan lebih tepat diterapkan di PT. DES TEKNOLOGI INFORMASI. Hasil pengujian akurasi menyatakan bahwa metode Weighted Moving Averages (WMA) lebih tepat untuk digunakan di PT. DES TEKNOLOGI INFORMASI karena memiliki tingkat error terkecil dibandingkan dengan Simple Moving Averages (SMA).

Kata Kunci : Kata kunci : Simple Moving Averages (SMA), Weighted Moving Averages (WMA), Mean Absolut Deviation (MAD), Mean Square Error (MSE), Mean Absolut Percentage Error (MAPE).

**COMPARISON OF THE POTENTIAL DETERMINATION INCOME
USING SIMPLE MOVING AVERAGE AND WEIGHTED MOVING
AVERAGE ON DES TECHNOLOGY INFORMATION**

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ABSTRACT

“Koperasi” in DES INFORMATION TECHNOLOGY Company, Semarang is a unit of DES INFORMATION TECHNOLOGY Semarang which functions as “Koperasi” serving their employees. Uncertainty in the revenue target lending each period led to the instability of interest income loan, so there are difficulties in determine the interest income each period. Moreover based on the problem, the research conducted by the methods Simple Moving Averages (SMA) and Weighted Moving Averages (WMA) to predict loan interest income each period. Both methods will be tested by the testing accuracy of forecasting that is Mean Absolute Deviation (MAD), Mean Square Error (MSE) and Mean Absolute Percentage Error (MAPE), so that obtained which method is more appropriate to apply in DES INFORMATION TECHNOLOGY. The accuracy of the test results stating that the method Weighted Moving Averages (WMA) is more appropriate for use in the INFORMATION TECHNOLOGY DES because it has the smallest error rate as compared with the Simple Moving Averages (SMA).

Keyword : Keywords : Simple Moving Averages (SMA), Weighted Moving Averages (WMA), Mean Absolut Deviation (MAD), Mean Square Error (MSE), Mean Absolut Percentage Error (MAPE).