

A Forecasting Scheme

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Abstract — In this research investigation, the author has detailed a novel method of finding the next term of a given Sequence.

I. INTRODUCTION

There are several methods of forecasting, especially the one most noted is the Time Series Forecasting.

II. ESTABLISHMENT OF THE FORECASTING ALGORITHM

Given any Sequence (of positive real numbers) of the kind,

$$S = \{y_1, y_2, y_3, \dots, y_{n-1}, y_n\}$$

the next term of this sequence can be written as

$$y_{n+1} = \sum_{i=1}^n y_i \left\{ \frac{\sum_{j=1}^n \text{Smaller}(y_i, y_j)}{\left\{ \sum_{j=1}^n \text{Smaller}(y_i, y_j) \right\} + \left\{ \sum_{j=1}^n \{ \text{Larger}(y_i, y_j) - \text{Smaller}(y_i, y_j) \} \right\}} \right\}$$

III. CONCLUSION

We can use this aforesaid formula to find the next term of any given sequence of positive reals. Therefore, this formula can be used for forecasting purposes.

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