

## عنوان مقاله:

The Study of Relationship between Economic Value Added EVA and the Capital Structure by Neurotic Network

## محل انتشار:

دومین کنفرانس بین المللی آینده پژوهی، مدیریت و توسعه اقتصادی (سال: 1394)

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## خلاصه مقاله:

Neurotic network is a machine for modeling human mind. Data - processing system in human mind is non-linear, parallel and highly complex. Therefore, neurotic network is a parallel-distributed processing system which has been made of simple processing units called neuron. This network accepts a series of inputs and then does a learning process based on weights of neurotic network and finally chooses the best outputs among the inputs (1). While calculating the Economic Value Added (EVA), we need through information of basic financial statements along with their related explanatory notes (2). In this research, two models of neurotic networks have been used to approximate the relationship between indexes pertaining to structure of the capital and Economic Value Added (EVA). After examining both models, it was revealed that the multi-layer Perceptron model, comparing with the neurotic network of radial-base functions, has better performance in calculating the desired function and providing more efficient data. In the presented models in this research, the significant relationship between the structure of the capital and Economic Value Added (EVA) is proven by acquisition of a calculating function with %1 error rate. The acquired results depict that the relationship between the second variable and EVA is stronger than the relationship between the first variable and the third one. By making use of both variables we can have a more accurate calculation of EVA allowing %1 error rate.

Of course, it must be noted that the more input presentation will lead to less erroneous system

## کلمات کلیدی:

Capital Structure; Economic Value Added; Multi-layer Perceptron Neurotic Network

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/503693>

