

Evaluation of effect of information technology on efficiency of listed companies in Tehran stock exchange (2000-2010)

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Abstract:

The present study aims at evaluation of the relationship between efficiency and information technology (IT). The researchers are going to measure the impact of information technology (IT) on companies' efficiency. The statistical population of the study is all of listed companies in Tehran stock exchange during years 2000 to 2010. The sample size according to limitations of research time and facilities consists of 117 firms. The required data are for information technology, efficiency of financial statements of companies as well as recorded data in stock exchange collected through a questionnaire. The current study main hypothesis therefore, is that there is a direct and strong relationship between level of using information technology in companies and companies' efficiency. In other words, the research seeks to investigate about whether amount of using information technology in a firm can increase the efficiency or not. In order to measure the research hypothesis, two correlation coefficient and multivariable regression tests are applied and the obtained results confirm the hypothesis. The achieved level of significance ($\text{sig}= 0.000$) indicates that use of information technology greatly influence on firms' efficiency. Additionally, the rate of correlation coefficient ($r=0.61$) shows a direct and strong relationship.

Key words: efficiency, information technology, measures of useful information