

EVALUATION OF VULNERABILITIES IN COMPUTER SYSTEMS USERS

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Abstract

Information security is a complex subject for all kinds of entities, including home users, small businesses or multinational companies. The purposes of this study is to categorize levels of user knowledge about the risk of internet connectivity, categorize protection strategies that are used to control the risk of information security, and analyze the relationships between the different levels of knowledge that concern connection risk versus protection strategies for computer security. A questionnaire was administered to a sample of 229 individuals. The 5-point Likert scale was used to measure the opinion of the participants with regard to the statements made in the questionnaire. The following alternatives were considered: strongly agree, somewhat agree, somewhat disagree, disagree and do not know. This empirical research confirms: 1) the level of importance in knowledge of the cyber risks lies in five categories that explain the 60.6 % variance, 2) the level of importance in security strategies were found in six categories that explain the 63.47% variability, and 3) there is a strong correlation in the order of 86.6 % between the knowledge of cyber risks and protection strategies.

Keyword: Malicious Software, Information Security, Access Controls