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## Effectiveness of Scientific Methods in Detecting Phishing Websites in Jordan

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**Abstract:** In this study, we measure and evaluate the effectiveness of the scientific methods used by forensic laboratory, detective and preventive police in Amman (Jordan) for detecting phishing websites. A new method that uses the URL to strengthen anti-phishing in Jordan is introduced. Experimental results of the proposed method are compared with the currently used one. The quantitative data obtained from forensic laboratories investigators, detective and preventive police is analyzed using descriptive statistics (SPSS), including percentages, frequencies, means, and standard deviations for each study variable. A P-value of less than 0.05 will be considered statistically significant. The loss and damage caused by phishing attacks via Internet; whether it is social, financial or moral is a serious issue to consider. This result could affect the Internet downsizing from users. Beside the weak technology used by users or organizations that encourage phishers to attack them is that attackers are updating their frequently and very fast. So organizations must in turn update their technologies and methods of protection frequently to protect their users. Descriptive, exploratory cross-sectional design is used in this study. A total of questionnaire in the three public security directorates are used in Amman-Jordan during December, 2012. The use of cross-sectional design may facilitate the identification of inter relationships among the variables in a short period.