

Editor's Introduction

In this MISR issue, we are delighted to present four research papers. The summary of the four papers is as follows.

Prakash Kuppuswamy and Saeed Q. Y. Al-Khalidi in their paper “Hybrid Encryption/Decryption Technique Using New Public Key and Symmetric Key Algorithm” propose a hybrid encryption system using new public key algorithm and private key algorithm. A hybrid cryptosystem is one which combines the convenience of a public-key cryptosystem with the efficiency of a symmetric-key cryptosystem. Here, they develop a provably two way secured data encryption system, which addresses the concerns of user's privacy, authentication and accuracy. The system with two different encryption algorithms have been used both in the encryption and decryption sequence. One is public key cryptography based on linear block cipher, another is private key cryptography based on simple symmetric algorithm. The cryptography algorithm provides higher security as well as authentication comparing to other existing hybrid algorithms.

Robert E. Pitts, Julia E. Blose and Rhonda W. Mack in their paper “Exploring Donation Appeals in Top Not-for-Profit Websites” examine the donation appeal strategies employed on forty-seven of the most successful nonprofit organizations' websites. Through scrutiny of the structural elements and textual content of each site, hypotheses linking fundraising performance to the use of active solicitation, relationship building strategies and emotion/value-based themes were tested. Based on this analysis, no specific consistent patterns of traditional web-based marketing-oriented solicitations commonly found in for-profit sites emerged. However, when the analysis was expanded to include affective responses and value perceptions of the sites as evaluated by a panel of subjects in an attempt to capture themes depicted through pictures and other non-textual means, a link between these responses and fundraising performance was detected. Together, these results suggest opportunities exist for more direct and aggressive solicitation of donors through the web.

Ch. Aswani Kumar and M. Sai Charitha in their paper “Detection and Analysis of Security Vulnerabilities in Java” argue that there are several tools that use techniques like static analysis, lexical analysis, etc. to detect the vulnerabilities in Java based programs. However still there are vulnerabilities which are not traceable by the available tools. The objective of their paper is twofold. They develop a method to detect vulnerabilities in Java programs. Further they analyze the dependencies among the vulnerabilities using mathematical lattice theory based formal concept analysis. Their experimental result show that the proposed model is able to detect the untraceable vulnerabilities and the

dependency analysis is in good agreement with the literature.

Ahmed H. Alahmadi, Ben Soh and Azmat Ullah in their paper “Modelling e-Health Systems Security Requirements: A Business Process Based Approach” state that health organisational executives agree that health systems today can play an increasingly key role in the achievement of the e-health business. However, over the past many years, the achievement of health systems in public health organisations has been stagnated due to a lack of information regarding protecting health information systems and other health organisational resources from security threats. The aim of their paper is to link the security requirements and security goals in previously modeled health process at the early stages of system development and fulfill the health organisations’ goals and objectives effectively and securely.

As the final note, we would like to thank all the authors and reviewers for their collaborative efforts to make this issue possible. It is our sincere wish that this journal become an attractive knowledge exchange platform among information systems researchers. Last but not least, to our loyal readers around the world, we hope you find the contents of the papers useful to your work or research.

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