

## Special Issue on Security Issues and Solutions for Information, Computer and Networks

## Guest Editorial

The special issue entitled as “Security Issues and Solutions for Information, Computer and Networks” under the umbrella of “Journal of Advanced Information and Technology”. This issue specially flavored for security community in information technology.

In the technological revolution, security is acting as a vital role for online community. This special issue contains six different topics in information, computer and network security.

The first paper narrates about components based key management algorithm for storage area network (SAN). Storage area network maintains all the data centrally with high performance but at the same time security vulnerabilities are more. The paper describes more detailed research idea about the encoding, decoding, key management and compression algorithm for SAN server.

In the second article describes about biometrics security for better authentication and key management. The authors provide a “Quasi-group” technique is used to provide better security to Retina Template. This paper presents a quasi-group based retinal encryption which successfully overcomes the limitations of the biometric encryption algorithms for image based templates.

There is a new research focus in the third article; the authors propose an extra layer called security layer in TCP/IP protocol suite. Also, the paper provides information about different security flaws of IPv6. The paper narrates the importance of security layer after the application layer in detail.

The fourth paper describes about security issues in Wireless MANET. This paper indicates that the wireless MANET presents a larger security problem than conventional wired one. The authors analyses the issues for black hole and cooperative black hole attack which is one of the new and possible attack in ad hoc networks.

In the next paper, authors deal the topic uncertainty handling in Intrusion Detection system. There is a new technique is implemented in this paper using Intuitionistic fuzzy logic which is a generalization of fuzzy logic. It will reduce false alarms in IDS.

The last paper analysis and provides a solution for issues of open environment sign-in schemes. The authors proposed an enhanced and trustworthy authentication scheme as a solution for open environment sign-in schemes.

### Guest Editor

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**Dr. Karthikeyan Subramanian** is working as Assistant Professor at the College of Applied Sciences, School of Information Technology, Sohar, Sultanate of Oman. Previously he was the Professor and Director, School of Computer Science and Applications, Karpagam University, Coimbatore, India. His primary research interest is in the area of Computer Science and Engineering, especially on the network security protocols for securing the data from various vulnerabilities. He uses wide range of computational tools such as Network Simulator, MAT Lab for theoretical and experimental procedures in his research. He has made several publications in reputed international journals and conference proceedings. He serves as a chief editor for an International Journal of Mobile Communications. He is acting as a member of editorial boards for many international journals in his filed including International Journal of Engineering, Science and Technology, International Journal of Advanced Networking and Applications and Journal of Theoretical and Applied

Information Technology. Also, he serves as a regular referee for several international journals, including Scientific Journals International, International Journal of Network Security, International Journal of Computer Science and Security, Information Technology Journal and International Journal of Engineering, Science, Technology. He is a member of many professional bodies worldwide including International Association of Computer Science and Information Technology, Association of Computer, Electronics and Electrical Engineers, International Association of Engineers and Computer Science Teachers Association.