Journal of Information Security Research Volume 4 Number 3 September 2013

Contents	
Editorial	i
Research	
A Prototype for Liunx/Unix Intrusion Detection:Approach by Behavior Specification- Ines BEN TEKAYA, Béchir AYEB	107
Contribution to Enhance IPSec Security by a Safe and Efficient Internet Key Exchange Protocol- Ahmim Marwa, Babes Malika, Ghoualmi Nacira	123
Security Protocol Architecture for Website Authentications and Content Integrity- Belal Abuhaija, Nidal Shilbayeh, Mohammad Alwakeel	133
A Novel Scheme for On-demand Distribution of Secure Element Keys- Vincent Alimi	141
Book Review	149
Conference Notification	151
 The Second International Conference on Future Generation Communication Technologies (FGCT 2013) 	
 The First International Conference on New Visions for Information and Communication Technology (ICNVICT 2013) 	
• The Fifth International Conference on the Applications of Digital Information and Web Technologies	

(ICADIWT)

Editorial

This issue has many research orientation themes. In the first paper on **"A Prototype for Liunx/Unix Intrusion Detection:Approach by Behavior Specification"**, the authors *Ines BEN TEKAYA* and *Béchir AYEB* have addressed the supervisor synthesis in the intrusion detection for which they have used the behavior specification. Their system is able to generate a structure and paves the way of searching faults or intrusions.

Internet Key Exchange (IKE) protocol is the most common mechanism where the security properties of IPSec are based; however the IKE is prone to a few attacks as the authors *Ahmim Marwa*, *Babes Malika* and *Ghoualmi Nacira* in their paper on **"Contribution to Enhance IPSec Security by a Safe and Efficient Internet Key Exchange Protocol"** viewed. To counter the attacks the authors have proposed formal verification using Automated Validation of Internet Security Protocols and Applications. The proposed protocol is more secure with less computation complexity, the authors document.

There are Internet protocols for the technical attributes in web; however no such protocol exists for content. *Belal Abuhaija, Nidal Shilbayeh* and *Mohammad Alwakeel* in their paper on **"Security Protocol Architecture for Website Authentications and Content Integrity"** developed a frame work architecture protocol for Web site content authentication to build a trusted Web sites directory called Islamic trust. In the proposed protocol they have employed the public key infrastructure (PKI) and Digital Certificates (DC) for Website authentication and watermarking techniques for document integrity.

In the paper on **"A Novel Scheme for On-demand Distribution of Secure Element Keys"**, the author *Vincent Alimi* has proposed scheme for on-demand distribution of secure element keys. This scheme, as the author claims, allows to subcontract the business and technical key management processes to a trusted third party that will distribute on-demand the keys to accredited TSMs.

We are thus pleased to release this issue.

Editor

i