

# **2014 Third International Conference on Cyber Security, Cyber Warfare and Digital Forensic**

**(CyberSec 2014)**

**Beirut, Lebanon  
29 April - 1 May 2014**



**IEEE Catalog Number: CFP1464S-POD  
ISBN: 978-1-4799-3907-7**

# TABLE OF CONTENTS

<b>Challenges Pertaining to Cyber War under International Law</b> .....	1
<i>M. Watney</i>	
<b>The Importance of Mandatory Data Breach Notification to Identity Crime</b> .....	6
<i>E. Holm, G. Mackenzie</i>	
<b>An Enhancement of Traceability Model Based-On Scenario for Digital Forensic Investigation Process</b> .....	12
<i>I. Mohamed, A. Manaf</i>	
<b>Comparison between Alloy and Timed Automata for Modelling and Analysing of Access Control Specifications</b> .....	16
<i>E. Geepalla</i>	
<b>An Approach for Forensic Investigation in Firefox OS</b> .....	22
<i>M. Yusoff, R. Mahmud, A. Dehghantanha, M. Abdullah</i>	
<b>Mobile Forensic Data Acquisition in Firefox OS</b> .....	27
<i>M. Yusoff, R. Mahmud, M. Abdullah, A. Dehghantanha</i>	
<b>Modeling the Propagation of Security Threats: An E- Learning Case Study</b> .....	32
<i>N. Rjaibi, N. Gannouni, L. Rabai, A. Aissa</i>	
<b>Modifying Authentication Techniques in Mobile Communication Systems</b> .....	38
<i>Z. Hassan, T. Elgarf, A. Zekry</i>	
<b>Statistical Analysis for Random Bits Generation on Quantum Key Distribution</b> .....	45
<i>O. Mohammad, S. Abbas, E. El-Horbaty, A. Salem</i>	
<b>A Cognitive Approach for Botnet Detection Using Artificial Immune System in the Cloud</b> .....	52
<i>V. KEBANDE, H. VENTER</i>	
<b>On the Power of Quantum Cryptography and Computers</b> .....	58
<i>H. Zouka, M. Hosni</i>	
<b>Autonomous Integrity Monitoring for GNSS Localization Using Informational Approach and Ionosphere-free Measurements</b> .....	64
<i>M. Kaddour, N. Tmazirte, M. El-Najjar, Z. Naja, N. Moubayed</i>	
<b>Author Index</b>	