

# **2014 3rd International Conference on Advanced Computer Science Applications and Technologies**

**(ACSAT 2014)**

**Amman, Jordan  
29-30 December 2014**



**IEEE Catalog Number: CFP1471U-POD  
ISBN: 978-1-4799-1846-1**

# 2014 3rd International Conference on Advanced Computer Science Applications and Technologies

## ACSAT 2014

### Table of Contents

Message from the Conference General Chair.....	viii
Conference Committees.....	ix
Reviewers.....	xiii

---

### Technical Papers

A Cognitive-Affective Measurement Model Based on the 12-Point Affective Circumplex .....	3
<i>Marini Othman, Hamwira Yaacob, Abdul Wahab, Imad Fakhri Alshaikli, and Mariam Adawiah Dzulkifli</i>	
Comparison between Cloud Sim and Green Cloud in Measuring Energy Consumption in a Cloud Environment .....	9
<i>Saleh Atiewi and Salman Yussof</i>	
OLBCA: A New Lightweight Block Cipher Algorithm .....	15
<i>Sufyan Salim Mahmood Aldabbagh and Imad Fakhri Taha Al Shaikhli</i>	
Management Dimension for Assessing Organizations' Readiness toward Business Intelligence Systems .....	21
<i>Ahmed H. Anjariny and Akram M. Zeki</i>	
Bioinformatics and Healthcare Computing Models and Services on Grid Initiatives for Data Analysis and Management .....	26
<i>Ali Al Mazari</i>	
Medical Image Annotation and Retrieval by Using Classification Techniques .....	32
<i>M.M. Abdulrazzaq, Shahrul Azman Mohd, and Muayad A. Fadhil</i>	
A Survey of Intrusion Detection System Using Case Study Kuwait Governments Entities .....	37
<i>Khalid Abdulkareem Al-Enezi, Imad Fakhri Al-Shaikhli, Abdul Rahman Al-Kandari, and Lulwa Ziad Al-Tayyar</i>	

Security Risk Analysis Used by Kuwait Government Sectors .....	44
<i>Khalid Abdulkareem Al-Enezi, Imad Fakhri Al-Shaikhli, Khaled Alhatem, and Abdul Rahman Al-Kandari</i>	
Cyber-Attacks Detection & Protection in Kuwait Government Sectors .....	50
<i>Khalid Abdulkareem Al-Enezi, Imad Fakhri Al-Shaikhli, Abdul Rahman Al-Kandari, and Sufyan Salim Mahmood Aldabbagh</i>	
Hot-Spot Traffic Pattern on Hierarchical 3D Mesh Network .....	56
<i>M.M. Hafizur Rahman, M.A.H. Akhand, Yasuyuki Miura, and Yasushi Inoguchi</i>	
The Relationship between Mobile Marketing and Customer Relationship Management (CRM) .....	61
<i>Kiandokht Hadadi and Mahmoud Khalid Almsafir</i>	
Gentle-BLUE: A New Method for Active Queue Management .....	67
<i>Adeeb Alsaaidah, Mohd Zalisham, Mohd Fadzli, and Hussein Abdel-Jaber</i>	
Career Guidance and Employment Management System .....	73
<i>Kasem Seng and Akram M. Zeki</i>	
A Framework for Identifying Skylines over Incomplete Data .....	79
<i>Ali A. Alwan, Hamidah Ibrahim, and Nur Izura Udzir</i>	
Frontend and Backend Web Technologies in Social Networking Sites: Facebook as an Example .....	85
<i>Hanin M. Abdullah and Ahmed M. Zeki</i>	
Graph Theory and Cyber Security .....	90
<i>Harith A. Dawood</i>	
Cognitive Wireless Network with Cooperative and Selfish Nodes .....	97
<i>Imane Daha Belghiti, Ismail Berrada, and Lahcen Omari</i>	
Elicit the Best Ways through Identify Congestion Places .....	102
<i>Mohammad Alodat and Iyas Abdullah</i>	
Providing Always Best Connected Service in VANET with Complete and Partial Information .....	108
<i>Abdelfettah Mabrouk, Abdellatif Kobbane, Mohammed El Koutbi, and Essaid Sabir</i>	
Composition Process Based on Heterogeneous Software Entities for Mobile Applications .....	113
<i>Afrak Djeddar, Hakim Bendjenna, Abdelkrim Amirat, and Mourad Oussalah</i>	
Social Networks Peacebuilding Event Mining: A Systematic Literature Review .....	119
<i>Muniba Shaikh, Norsaremah Salleh, and Lili Marziana</i>	
An Experimental Study for Assessing Email Classification Attributes Using Feature Selection Methods .....	125
<i>Issa Qabajeh and Fadi Thabtah</i>	

Dynamic Communication Performance of TTN with Uniform and Non-uniform Traffic Patterns Using Virtual Cut-Through Flow Control .....	133
<i>Faiz Al Faisal, M.M. Hafizur Rahman, and Yasushi Inoguchi</i>	
Users' Awareness of and Perception on Information Security Issues: A Case Study of Kulliyah of ICT Postgraduate Students .....	139
<i>Habiba Hamid and Akram M. Zeki</i>	
Multi-user Searchable Encryption with Fine-Grained Access Control without Key Sharing .....	145
<i>Qinqin Wang, Yanqin Zhu, and Xizhao Luo</i>	
Hiding Message in Color Image Using Auto Key Generator .....	151
<i>Qasim Mohammed Hussein</i>	
Detecting TCP SYN Based Flooding Attacks by Analyzing CPU and Network Resources Performance .....	157
<i>Abdulaziz Aborujilah, Mohd Nazri Ismail, and Shahrulniza Musa</i>	
Software Process Improvement Initiatives in Small and Medium Firms: A Systematic Review .....	162
<i>Malek Ahmad Theeb Almomani, Shuib Basri, Saipunidzam Mahamad, and Amos Orenyi Bajeh</i>	
Online Recognition System for Handwritten Hindi Digits Based on Matching Alignment Algorithm .....	168
<i>Mustafa Ali Abuzaraida, Akram M. Zeki, and Ahmed M. Zeki</i>	
Design a New Proposed Route Optimization Scheme Based NEMO-Centric MANEMO (NCM) .....	172
<i>Ahmed A. Mousa, Aisha Hassan Abdalla, Khalid Al Khateeb, Othman Khalifa, and Huda Adibah</i>	
Modeling a Conceptual Framework for Owner-Contractor Relationship and Time-Cost Trade-Off Using Fuzzy Logic Techniques .....	179
<i>Muataz Hazza F. Al Hazza, Mohammad Al Fadel, and Erry Yulian Triblas Adesta</i>	
Arabic-Malay Cognates as a Computer Assisted Language Learning .....	184
<i>Roaya Shehab and Akram M. Zeki</i>	
Organizational Factors in the Adoption of Cloud Computing in E-Learning .....	188
<i>Shamsul Anuar Mokhtar, Siti Haryani Shaikh Ali, Abdulkarem Al-Sharafi, and Abdulaziz Aborujilah</i>	
Location-Aware Mobile Crime Information Framework for Fast Tracking Response to Accidents and Crimes in Big Cities .....	192
<i>Teddy Mantoro, Feriadi, Nazori Agani, Media A. Ayu, and Dwiki Jatikusumo</i>	
Mobile Online Services and Measuring User Satisfaction: Study of Kuwait .....	198
<i>Tami Alzabi and Asadallah Shah</i>	
<b>Author Index</b> .....	<b>205</b>