

2017 International Conference on Information Society (i-Society 2017)

**Dublin, Ireland
17 – 19 July 2017**



**IEEE Catalog Number: CFP1729N-POD
ISBN: 978-1-5386-0597-4**

**Copyright © 2017, Infonomics Society
All Rights Reserved**

****** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP1729N-POD
ISBN (Print-On-Demand):	978-1-5386-0597-4
ISBN (Online):	978-1-908320-80-3

Additional Copies of This Publication Are Available From:

Curran Associates, Inc
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: (845) 758-0400
Fax: (845) 758-2633
E-mail: curran@proceedings.com
Web: www.proceedings.com

CURRAN ASSOCIATES INC.
proceedings
.com

Contents Page

Message from the Steering Committee Chair	3
Executive Committees	6
Keynote Speakers	8
Adrian Wickes	9
Professor Charles Shoniregun	10
PhD and Doctorate Consortium	11
Organiser: Charles A. Shoniregun	
Sessions	1H
Session 1: Cloud Computing and Information Security	1I
DBaaS Comparison: Amazon vs. Microsoft (Authors: Arne Koschel, Irina Astrova, Chris Eickemeyer, Jan Kersten, Norman Offel)	1Í
Product Innovation with Scrum: A Longitudinal Case Study (Authors: Adeniyi Abdul, Julian M. Bass, Hossein Ghavimi, Peter Adam)	2G
Critical Factors Influencing Employees Compliance with Information Security Policies of an Organization (Authors: Randle Oluwarotimi Abayomi, Melo Yolanda)	2Ì
Towards a Cloud Intrusion Detection and Prevention System for M-voting in South Africa (Authors: Dina Moloja, Noluntu Mpekoa)	3I
Numbering Plan for M2M and IoT Services - A Study of United States, Japan, China and Taiwan (Authors: Chih-Nan Hu, Shih-Hsiung Lee, Chu-Sing Yang)	I €
Session 2: e-Society	4I
Quasi-physical Approach to Forming the Methodological and Theoretical Base of Infosphere Development (Authors: Maxim Polyakov, Igor Khanin, Nikolai Bormatenko)	4Í
A Framework for the Adoption of EHRs by Primary Healthcare Physicians in the Kingdom of Saudi Arabia (Authors: Asma Aljarullah, Richard Crowder, Gary Wills)	4J
Self-Marketing System for a Restaurant to Enhance Customer Action (Authors: Noriko Yokoyama, Shuji Hashimoto)	5Í
Towards a Motivational based Model for Effective Use of Human Resource Information System in South African Universities (Authors: Randle Oluwarotimi Abayomi, Coleman A., Kekwaletswe R.)	6F
Session 3: Internet Applications and Technology	6Ì
Human Resources in Computer Sciences in Costa Rica: The Elusive Gap Between Supply and Demand (Authors: Francisco J. Mata, Ariella Quesada)	6J
Making the Move to Microservice Architecture (Authors: Arne Koschel, Irina Astrova, Jeremias Dötterl)	7I
Image-Based Memes as Sentiment Predictors (Author: Jean French)	I €
Mobile Natural Language Database Interface for Accessing Relational Data (Authors: Kaitlyn Fulford, Aspen Olmsted)	8Î
m-Government Maturity Model: A Qualitative Investigation (Authors: Dlamini Diteboho Refiloe, Mpekoa Noluntu)	8Ì

Session 4: Cyber Security and Digital Forensics	9H
Secure Autonomous Process Communication (Author: Aspen Olmsted)	9I
A Taxonomy of Distributed Denial of Service Attacks (Authors: Michele De Donno, Nicola Dragoni, Alberto Giarretta, Angelo Spognardi)	FE€
Security Vulnerabilities in Javascript Hotpatching in iOS with a Commercial and Open-Source Tool (Authors: Sarah Ford, Aspen Olmsted)	10Ì
Detection of JPEG Compression on Bitmap Image Based on Phase Spectrum Statistical Features (Authors: Edi Morales-Cruz, Jose Juan Garcia-Hernandez)	1FF
A Performance Evaluation of Multi-tenant Data Tier Design Patterns in a Containerized Environment (Authors: Adeniyi O. Abdul, Julian M. Bass, Hossein Ghavimi, Peter Adam)	11Î
Session 5: e-Society	12G
The Cache Correctness (Author: Aspen Olmsted)	12H
The Feasibility of Managing Electronic Patient Health Records (ePHRs): The Case of Public Clinics in Potchefstroom, South Africa (Authors: Motlhabane Jacobus Maboe, Omotayo Kayode Abatan)	12J
Gamifying STEM Education (Author: Ana Hol)	13Î
An Implementation Framework of Business Intelligence in E-government Systems for Developing Countries Case Study: Morocco E-government System (Authors: Yassine Jadi, Lin Jie)	13Ì
Exploiting Twitter for Next-Place Prediction (Author: Carmela Comito)	14H