

2015 International Conference on Information Society (i-Society 2015)

**London, United Kingdom
9 – 11 November 2015**



**IEEE Catalog Number: CFP1529N-POD
ISBN: 978-1-4673-9484-0**

Contents Page

Message from the Steering Committee Chair	3
Executive Committees	6
Keynote Speakers	9
Professor Steven Furnell	10
Dr Mirco Musolesi	11
Professor Charles A. Shoniregun	12
PhD/Doctorate Consortium	13
Organiser: Charles A. Shoniregun	
Sessions	14
Session 1: E-Learning	15
Visualization models for Virtual Learning Environments (Authors: Manuel Romero Cantal, Juan Luis Castro Peña)	16
Flowcharting Recursion Based on Data Flow (Author: Sabah Al-Fedaghi)	22
Inter-Communication Management in cases with disabled children (Authors: Dena Hussain, Linn Gustavsson Christiernin)	30
Session 2: E-Society	32
An empirical study of collaborative innovation as a facilitator to telemedicine adoption in developing countries (Authors: Janerose Nyamu, Rebecca DeCoster, Syakirah Mohamad)	33
A Comparative Study of China and the World's Informatization Development (Authors: Zhang Jianguang, Zhu Jianming)	39
Comparison of Possibilities of UAV and Landsat in Observation of Small Inland Water Bodies (Authors: Miroslav Pásler, Jitka Komárková, Pavel Sedlák)	45
Session 3: Cloud Computing	50
Cloud Service Lifecycle for Small and Medium-sized Enterprises (Authors: Irina Astrova Claudio Giovanoli, Stella G. Grivas, Marc Schaaf, Arne Koschel)	51
Enhanced Cloud Patterns: A Case Study of Multitenancy Patterns (Authors: A.A. Adewojo, J.M. Bass and I.K. Allison)	53
Evaluating Degrees of Tenant Isolation in Multitenancy Patterns: A Case Study of Cloud-hosted Version Control System (VCS) (Authors: Laud Charles Ochei, Julian M. Bass, Andrei Petrovski)	59
Session 4: Social Network	67
Caregivers of Autistic Children: Seeking Information in Social Media (Authors: Ahmad A. Khudair, Maryam S. AlOshan)	68
Women leadership in enterprise social network: A SNA toolkit to foster the emergence of informal leaders in organizations (Authors: Giorgia Di Tommaso, Giovanni Stilo, Paola Velardi)	73
Coevolution of Opinion Formation and Network Dynamics in Complex Networked Systems (Authors: Mahdi Jalili)	79

A Comparative Study of DAG Clustering (Authors: Hongliang Lu, Jiannong Cao, Saohe Lv, Xiaodong Wang, Juan Liu)	84
 Session 5: e-Society	 90
Insourcing A Government Information System: An analysis using institutions and the capability approach (Authors: A. Omar, Julian M. Bass, P. Lowit)	91
Barriers Facing E-Service Technology in Developing Countries: A Structured Literature Review with Nigeria as a Case Study (Authors: Kazeem Oluwakemi Oseni, Kate Dingley, Penny Hart)	97
Towards ICT4D in a rural region using robotics to promote technological capability (Authors: Arnoldo Rodríguez, Rogelio Nájera)	104
Aspects of Visualization of Health Data: Case Study – Pardubice Region, Czech Republic (Authors: Ivana Cermáková, Pavel Sedlák, Jitka Komárková)	110
Politics 2.0: ICTs in Costa Rica's 2014 Presidential Campaign (Author: Roberto Cruz Romero)	115
 Session 6: E-Business and New Enabling Technologies	 121
The Relationship Between Enterprise Internationalization and E-business Adoption: A Perspective of Indonesian SMEs (Authors: Panca O. Hadi Putra and Zainal A. Hasibuan)	122
Two-Rate Neural Predictive Control of Coaxial Rotor/Ducted-Fan UAV for Enhanced Situational Awareness (Authors: Igor Astrov, Natalya Berezovski, Mihhail Pikkov, Vadim Kimlaychuk)	127
Research on the Optimization of Mini-Enterprise Business Process Management (Authors: Long Wang, Weining Liu, Zhe Wang)	133
 Session 7: Secure Technologies	 137
A Performance Assessment Metric for Information Security Financial Instruments (Authors: Pankaj Pandey, Einar Arthur Snekkenes)	138
Leakage Current Minimisation and Power Reduction Techniques using Subthreshold Design (Authors: Hippolyte Djonon Tsague, Bhekisipho Twala)	146
Efficient Implementation of Masked AES on Side-Channel Attack Standard Evaluation Board (Authors: Massoud Masoumi, Pouya Habibi and Mohammad Jadidi)	151
A Case Study of Task Priority Effects in GA for Cluster Based DAG Scheduling (Authors: Hongliang Lu, Jiannong Cao, Saohe Lv, Xiaodong Wang and Juan Liu)	157