

# **2013 International Conference on Research and Innovation in Information Systems**

**(ICRIIS 2013)**

**Kuala Lumpur, Malaysia  
27-28 November 2013**



**IEEE Catalog Number: CFP1339N-POD  
ISBN: 978-1-4799-2488-2**

# TABLE OF CONTENTS

<b>Information And Communication Technology (ICT): The Role And Its Impact To Maritime University's Online Distance Education.....</b>	<b>1</b>
<i>M. Arante</i>	
<b>Exploring The Use Of Enterprise Content Management Systems In Replication Types Of Organizations.....</b>	<b>10</b>
<i>N. Arshad, S. Milton, R. Bosua</i>	
<b>Modeling The Effect Of Task Interdependence On The Relationship Between Transactive Memory Systems (TMS) Quality And Team Performance.....</b>	<b>16</b>
<i>M. Ariff, R. Sharma, S. Milton, R. Bosua</i>	
<b>A Preliminary Study For Critical Success Factors Of Micro Sourcing In Malaysia.....</b>	<b>22</b>
<i>S. Aris, N. Janom, N. Arshad, S. Salleh, N. Mastuki</i>	
<b>Fraud Detection In Telecommunication Industry Using Gaussian Mixed Model.....</b>	<b>27</b>
<i>M. Yusoff, I. Mohamed, M. Bakar</i>	
<b>An Improved Arabic Light Stemmer.....</b>	<b>33</b>
<i>O. Elrajubi</i>	
<b>Emotion Detection Using Relative Grid Based Coefficients Through Human Facial Expression.....</b>	<b>45</b>
<i>K. Kudiri, A. Said, M. Nayan</i>	
<b>Innovation As A Driver Of Internationalization In The Software Industry.....</b>	<b>49</b>
<i>M. Ronkko, A. Ojala, P. Tyrvaainen</i>	
<b>Knowledge Management In Agents Of Things: A Case Study Of Smart Classroom Management.....</b>	<b>55</b>
<i>S. Ismail, M. Ahmad</i>	
<b>Review On Cloud Service Evaluation And Selection Methods.....</b>	<b>61</b>
<i>H. Alabool, A. Mahmood</i>	
<b>Forming Community Of Practice In IT Department Of Higher Education Institution.....</b>	<b>67</b>
<i>F. Muhammad, A. Nordin</i>	
<b>Constraints On Achieving Key Performance Indicators For Scholarly Publications Among Academic Staff: Case Of A Malaysian Public University.....</b>	<b>73</b>
<i>S. Kaur, R. Ibrahim, A. Selamat</i>	
<b>Human Resource Information Systems (HRIS) Success Factors In A Public Higher Education Institution Context.....</b>	<b>79</b>
<i>A. Davarpanah, N. Mohamed</i>	
<b>Sequential Pattern Based Multi Document Summarization - An Exploratory Approach.....</b>	<b>85</b>
<i>S. Alias, S. Muhammad</i>	
<b>User's Perception On The Application Of Haptics In Mobile E-Commerce.....</b>	<b>91</b>
<i>M. Muniandy, W. Ee</i>	
<b>Mobile Technology For Older People: Use Of Personas.....</b>	<b>97</b>
<i>S. Malik, M. Azuddin</i>	
<b>Improving Multi-Term Topics Focused Crawling By Introducing Term Frequency-Information Content (TC-IC) Measure.....</b>	<b>102</b>
<i>A. Pesaranghader, A. Pesaranghader, N. Mustapha, N. Sharef</i>	
<b>ABMOM For Cross-Platform Communication In SOA Systems.....</b>	<b>107</b>
<i>N. Ibrahim, M. Hassan, M. Abdullah</i>	
<b>Blended Learning Approach With Web 2.0 Tools.....</b>	<b>118</b>
<i>A. Tulaboev</i>	
<b>Measurable Reliability Dimensions For Islamic Websites.....</b>	<b>123</b>
<i>R. Nassr, M. Mahmud, A. Tap, M. Aliyu</i>	
<b>Towards Designing Effective Security Messages: Persuasive Password Guidelines.....</b>	<b>129</b>
<i>N. Zakaria, N. Katuk</i>	
<b>A Conspiracy Attack Resistant Trust Model For Agile Manufacturing Enterprises.....</b>	<b>135</b>
<i>W. Zhang, X. Wang</i>	
<b>Enhanced Approach For Developing Web Applications Using Model Driven Architecture.....</b>	<b>145</b>
<i>M. Mukhtar, M. Hassan, J. Jaafar, L. Rahim</i>	
<b>The Mapping Process Of Unstructured Data To Structured Data.....</b>	<b>151</b>
<i>M. Abdullah, K. Ahmad</i>	
<b>Grid Computing And Scientific Research: Concepts And Review.....</b>	<b>156</b>
<i>A. Jaber, M. Othman, M. SJaugi</i>	

<b>The Development Of An Agent Based Modeling Framework For Simulating Of Building Consultant Teamwork</b> .....	162
<i>S. Kado, R. Ibrahim, K. Khaidzir</i>	
<b>Information Seeking Behaviour Factors: A Measurement Model</b> .....	168
<i>M. Nadzir, J. Salim</i>	
<b>Initial Framework On Identifying Factors Influencing Individuals' Usage Of Telehealth</b> .....	174
<i>N. Saad, R. Alias, Z. Ismail</i>	
<b>E-Business And Cloud Computing Awareness For Malaysian SMEs: A Recommendation From Academic And Industry Perspectives</b> .....	180
<i>W. Hussein, R. Sulaiman, A. Hamzah</i>	
<b>A Review Of E-Service Quality Dimensions In User Satisfaction</b> .....	186
<i>I. Al-Nuaimi, A. Mahmood, L. Jung, H. Jebur</i>	
<b>The Status Of Innovation Value Chain In One Of Malaysia Public Research Institutes And Government Agencies</b> .....	192
<i>I. Ishak, R. Alias, R. Hassan, S. Basaruddin, Z. Suradi</i>	
<b>Utilizing Mapping Tools For Cultural Heritage Ontology Construction</b> .....	198
<i>S. Nasir, N. Noor</i>	
<b>A Literature Review: Exploring Organization Learning Orientation As Antecedent Of Information Technology (IT) Infrastructure Capability To Achieve Organizational Agility</b> .....	204
<i>N. Hassan, N. Arshad, E. Mustapha, J. Jaafar</i>	
<b>Effects Of Information Overload On Productivity In Enterprises: A Literature Review</b> .....	210
<i>Z. Sabeeh, Z. Ismail</i>	
<b>Automatic Interactive Security Monitoring System</b> .....	215
<i>A. Zeki, E. Elnour, A. Ibrahim, C. Haruna, S. Abdulkareem</i>	
<b>Comparative Management Control Systems In Three Companies Operating In Saudi Arabia: The Role Of Information Technology And Planning</b> .....	221
<i>E. Alsihati, M. Tahir</i>	
<b>Factors Of Social Networking Use As A Business Tool Among Micro-Enterprises</b> .....	227
<i>V. Alexandra, E. Kassim</i>	
<b>Co-Active Neuro-Fuzzy Inference Systems Model For Predicting Crude Oil Price Based On OECD Inventories</b> .....	232
<i>H. Chiroma, S. Abdulkareem, A. Abubakar, A. Zeki, A. Gital, M. Usman</i>	
<b>Nurturing Knowledge Management Initiative Base On Students' Electronic Records: A Study In Vocational Colleges In Melaka And Negeri Sembilan Zones</b> .....	236
<i>N. Mohammad, Z. Yusof</i>	
<b>Green IT Adoption Towards Environmental Sustainability: The Moderating Role Of Top Management Enforcement</b> .....	241
<i>S. Yunus, S. Jailani, H. Hairuddin, E. Kassim</i>	
<b>Aligning An Information System Strategy With Sustainability Strategy Towards Sustainable Campus</b> .....	245
<i>F. Goni, S. Sahran, M. Mukhtar, S. Shukor, A. Chofreh</i>	
<b>Mobile Based Learning: An Integrated Framework To Support Learning Engagement Through Augmented Reality Environment</b> .....	251
<i>Z. Yusoff, H. Dahlan</i>	
<b>Data Provenance Trusted Model In Cloud Computing</b> .....	257
<i>M. Saad, K. Jalil, M. Manaf</i>	
<b>A Proposed Framework For Visualising Music Mood Using Texture Image</b> .....	263
<i>A. Husain, M. Shiratuddin, K. Wong</i>	
<b>Self-Efficacy And Its Impacts On Academic Researchers' Absorptive Capacity In Smart Phones Acceptance: Conceptual Paper</b> .....	275
<i>D. Bamasoud, N. Iahad, A. Rahman</i>	
<b>Empowering Health Behaviour Intervention Through Computational Approach For Intrinsic Incentives In Participatory Sensing Application</b> .....	281
<i>S. Anawar, S. Yahya</i>	
<b>Examining The Effects Of Knowledge, Attitude and Behaviour On Information Security Awareness: A Case On SME</b> .....	286
<i>J. Kaur, N. Mustafa</i>	
<b>Web Information Gathering Processes For Gold And Silver Price Information</b> .....	291
<i>N. Katuk, N. Zakaria, A. Shariff, A. Al-Ghushami, M. Yusoff</i>	
<b>Enriching Hierarchies In Multidimensional Model Of Data Warehouse Using WORDNET</b> .....	296
<i>Marini, M. Nazri</i>	
<b>Key Contributing Factors Towards Successful Electronic Government Systems Interoperability</b> .....	302
<i>M. Othman, R. Razali</i>	

<b>Preliminary Findings Of Facebook Appropriation Process In Family Context</b> .....	308
<i>Y. Mahmud, N. Rahim, S. Miskon</i>	
<b>A Preliminary Review Of Legacy Information Systems Evaluation Models</b> .....	314
<i>H. Bakar, R. Razali</i>	
<b>Resilient Organization: Modelling The Capacity For Resilience</b> .....	319
<i>N. Abdullah, N. Noor</i>	
<b>The Impact Of Organization's Demographic Factors On Business Intelligence Maturity In Malaysia</b> .....	325
<i>O. Lih, S. Hwa</i>	
<b>A Method On Lexical Disambiguation In Distributed Heterogeneous Autonomous Database</b> .....	330
<i>S. Tahat, K. Ahmad</i>	
<b>Literature Review On The Feasibility Of Mobile-Assisted Language Learning (MALL) In Developing Vocabulary Skills Among Non-English Speaking Migrant And Refugee Women</b> .....	336
<i>K. Ahmad, J. Armarego, F. Sudweeks</i>	
<b>A Coherent Framework For Understanding Critical Success Factors Of ICT Project Environment</b> .....	342
<i>A. Subiyakto, A. Ahlan</i>	
<b>Cognitive Interface System Design Usability Testing</b> .....	348
<i>D. Rosli, R. Alias, A. Rahman</i>	
<b>Value Creation Drivers In SOA For Research &amp; Innovation: A Proposed Framework For HEI Context</b> .....	354
<i>M. Golooba, A. Ahlan</i>	
<b>Evaluation Of Collision Avoidance Path Planning Algorithm</b> .....	360
<i>L. Burhanuddin, M. Islam, S. Yusof</i>	
<b>Towards T- Government In Malaysia: Investigation Of Citizen's Willingness To Participate In Democratic Services And Information Privacy Concern</b> .....	366
<i>N. Hasbullah, N. Noor, W. Isa</i>	
<b>Research Framework On KMS Use: An Approach Anchored On The Interplays Between Engineered And Emergent Organizational Factors</b> .....	370
<i>I. Oyefolahan, M. Mahmud</i>	
<b>Mobile Applications Using Augmented Reality To Support Older People</b> .....	374
<i>S. Malik, L. Abdullah, M. Mahmud, M. Azuddin</i>	
<b>Framework For Translating The Holy Quran And Its Reciting Rules To Braille Code</b> .....	380
<i>A. Abualkishik, K. Omar</i>	
<b>A Preliminary Evaluative Study Of The E/CIA: Integrated Information Audit Framework For Electricity Companies</b> .....	386
<i>S. Shariff, I. Ariffin, A. Latif, M. Nadzir</i>	
<b>Real-Time Network Anomaly Detection Architecture Based On Frequent Pattern Mining Technique</b> .....	392
<i>A. Said, D. Dominic, I. Faye</i>	
<b>Exploratory Study Of Assessment In Teaching And Learning</b> .....	398
<i>S. Hamidi, Z. Shaffiei, S. Sarif, N. Ashar</i>	
<b>Effective Capacity With Interference Constraints In Multichannel Spectrum Sharing System</b> .....	404
<i>M. Elalem</i>	
<b>Application Of Fuzzy Set Theory To Evaluate The Rate Of Aggregative Risk In Information Society</b> .....	410
<i>A. Tamjidyamcholo, H. Yamchello, M. Bin, R. Gholipour</i>	
<b>Information Security Professional Perceptions Of Knowledge-Sharing Intention In Virtual Communities Under Social Cognitive Theory</b> .....	416
<i>A. Tamjidyamcholo, R. Gholipour, M. Baba, H. Yamchello</i>	
<b>A Dual-Route Concept Of Persuasive User Interface (UI) Design</b> .....	422
<i>N. Ibrahim, M. Shiratuddin, K. Wong</i>	
<b>Lan Chat Messenger (LCM) Using Java Programming With VOIP</b> .....	428
<i>I. Abba, U. Eaganathan, N. Aziz, J. Gabriel</i>	
<b>Information Technology Program Students' Awareness And Perceptions Towards Personal Data Protection And Privacy</b> .....	434
<i>L. Chen, R. Ismail</i>	
<b>A Case Study Of Higher Education Academics' Shared Knowledge And Classification</b> .....	439
<i>A. Saad, H. Haron</i>	
<b>Foresight In Malaysia: A Case Study</b> .....	445
<i>M. Khairuddin, N. Noor, H. Haron, W. Adnan</i>	
<b>The Emergence Of Collective Intelligence</b> .....	451
<i>S. Gunasekaran, S. Mostafa, M. Ahmad</i>	
<b>Evaluating User Satisfaction Of Veteran Integrated Benefit System (VIBES) In Jabatan Hal Ehwal Veteran (JHEV)</b> .....	457
<i>N. Janom, N. Nordin, S. Aris</i>	

<b>Workload Utilization Dissemination On Grid Resources For Simulation Environment</b> .....	463
<i>B. Yahaya, R. Latip, A. Abdullah, M. Othman</i>	
<b>Theoretical Model For Continuance Use Of Mobile Phone Wellness Application</b> .....	469
<i>A. Yusof, N. Iahad</i>	
<b>An Initial Framework For Interactive Health Portal; Using Actor Network Theory</b> .....	475
<i>S. Foroutani, N. Iahad, A. Rahman</i>	
<b>Developing An Instrument For Cloud Computing Adoption By Small And Medium-Sized Enterprises</b> .....	481
<i>A. Saedi, N. Iahad</i>	
<b>Web OPAC End User Satisfaction From Library Science And Information System Perspectives</b> .....	487
<i>H. Zainal, A. Hussin, N. Sa'don</i>	
<b>Self-Directed Learning: Student's Interest In Viewing The Learner Model</b> .....	493
<i>N. Ahmad</i>	
<b>Information Privacy Concerns In Electronic Healthcare Records: A Systematic Literature Review</b> .....	504
<i>F. Rahim, Z. Ismail, G. Samy</i>	
<b>Dahlia: Online Formative Assessment For Theoretical Course</b> .....	510
<i>S. Shuhidan, A. Mohamad</i>	
<b>A Conceptual Model For Knowledge Sharing Towards Information Security Culture In Healthcare Organization</b> .....	516
<i>N. Hassan, Z. Ismail, N. Maarop</i>	
<b>A Review On IT Outsourcing Approach And A Proposed IT Outsourcing Model For Malaysian SMEs In E-Business Adoption</b> .....	521
<i>A. Hamzah, R. Sulaiman, W. Hussein</i>	
<b>Improving The Efficiency Of Market Information Analysis Systems Using GIS, Polygon And Spatial Databases</b> .....	527
<i>O. Izadi, A. Rakib</i>	
<b>Taxonomies Of User Experience (UX) Evaluation Methods</b> .....	533
<i>S. Rajeshkumar, R. Omar, M. Mahmud</i>	
<b>A Situational Analysis Of Strategic Information System Planning In The Context Of A Malaysian SME</b> .....	539
<i>H. Haron, Z. Zolkarnain, S. Sabri</i>	
<b>Analyzing Students Records To Identify Patterns Of Students' Performance</b> .....	544
<i>A. Hoe, M. Ahmad, T. Hooi, M. Shanmugam, S. Gunasekaran, Z. Cob, A. Ramasamy</i>	
<b>Touch Screen With Audio Feedback: Content Analysis And The Effect Of Spatial Ability On Blind People's Sense Of Position Of Web Pages</b> .....	548
<i>A. Abidin, H. Xie, W. Wong</i>	
<b>Antecedents Of Customer Satisfaction In Mobile Commerce: A Systematic Literature Review</b> .....	554
<i>A. Taha, D. Jahed, M. Ahmad, N. Zakaria</i>	
<b>The Impact Of College English Test (CET) On Graduates' Salaries Using Data Mining Techniques</b> .....	559
<i>D. Chen, A. Aghdam, M. Kamalpour, A. Sim</i>	
<b>Understanding And Designing Business Process Modelling For Emergency Plan</b> .....	564
<i>H. Hamid, M. Rozan, R. Ibrahim, S. Deris, H. Rushdi, M. Yunus</i>	
<b>Derivation For Design Of Virtual Learning Environment (VLE) Framework For Malaysian Schools</b> .....	570
<i>N. Sa'don, H. Dahlan, H. Zainal</i>	
<b>Service Level Agreement Framework For E-Commerce Cloud End-User Perspective</b> .....	576
<i>A. Busalim, A. Hussin, A. Ibrahim</i>	
<b>Framework For Localization Of B2C E-Commerce Websites In Saudi Arabia</b> .....	582
<i>A. Ibrahim, A. Hussin, A. Busalim</i>	
<b>End Hosts Clustering Based On Resources Availability In Volunteer Computing</b> .....	588
<i>S. Peyvandi, R. Ahmad, N. Zakaria</i>	
<b>Development And Validation Of Instrument For Knowledge Contributor Acceptance In KMS</b> .....	594
<i>S. Assegaff, A. Hussin</i>	
<b>Author Index</b>	