Mobility, Intelligent Networks & Smart Societies

Proceedings of the 2nd BCS International IT Conference 2014

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Editors

Professor Hussain Al-Ahmad

Abstract

In line with the Abu Dhabi 2030 Vision, the 2nd BCS International IT Conference presented a forum for the finest leaders in IT from industry and academia, addressing leading-edge, up-to-date, high-impact business IT trends and technologies. The theme of the 2014 conference was 'Mobility, Intelligent Networks & Smart Societies'. The conference programme included industry and academia parallel sessions covering different tracks in addition to a number of distinguished keynote speakers. The conference was hosted by BCS, The Chartered Institute for IT, Middle East Section and was organised under the patronage of H.E. Sheikh Nahayan Mubarak Al Nahayan.

Editors

This conference was edited by:

Professor Hussain Al-Ahmad is a full professor at Khalifa University of Science, Technology and Research, UAE. His research interests are in the areas of signal and image processing, multimedia and engineering education. He received his PhD from the University of Leeds, UK in 1984. He worked at Portsmouth University, UK, Leeds Metropolitan University, UK, Kuwaiti Faculty of Technological Studies and the University of Bradford, UK. He has supervised successfully 30 PhD and Master students in the UK and UAE. He has delivered short courses and seminars in Europe, Middle East and Korea. He has published over 100 papers in international conferences and journals and has a UK patent. He served as chairman and member of the technical program committees of many international conferences. He is a member of BCS The Chartered Institute for IT (MBCS), Chartered IT Professional (CITP), senior member of the IEEE and a Fellow of the Institution of Engineering and Technology (FIET), Chartered Engineer (CEng), Fellow of the British Royal Photographic Society (FRPS) and an Accredited Senior Imaging Scientist (ASIS). He is also the Vice Chairman of the Middle East Section of BCS and the IEEE UAE section.

Papers:

S1: Business Applications

Session Chair: Dr. Yasin Miheisi

Marie Griffiths (University of Salford, United Kingdom); Leena Janahi (University of Salford, UK); Hesham al-Ammal (University of Bahrain, Bahrain) IT Governance from Theory to Practice: The Importance of Accountability <http://dx.doi.org/10.14236/ewic/BCSIIT2014.1>

Ghassan Kbar (Riyadh Techno Valley-Research Center, Saudi Arabia); Wathiq Mansoor (American University in Dubai, UAE) E-HRM and Outsourcing For Arabic Countries and Large Organisations <http://dx.doi.org/10.14236/ewic/BCSIIT2014.2>

Siva Sankaran (Chartered Membership of BCS, UAE) Is Your IT Investment Adding Value to the Enterprise <http://dx.doi.org/10.14236/ewic/BCSIIT2014.3>

Ali al-Azzawi (HeiTech International, UAE) User Experience in Arabia: The Business Case for User-Centred Design and Usability Engineering <http://dx.doi.org/10.14236/ewic/BCSIIT2014.4>

S2: Educational Applications

Session Chair: Dr. Mohammad Saeed

Mustafa Al Emran (The British University in Dubai, UAE); Khaled F. Shaalan (The British University in Dubai & Cairo University, UAE) E-podium Technology: A Medium of Managing Knowledge at Al Buraimi University College via M-learning <http://dx.doi.org/10.14236/ewic/BCSIIT2014.5>

Salah Al-Khafaji (Sur University College, Oman); Balasubramanian Sriram (Sur University College, Oman) Using Online Learning Resources: A Self Learning Tool <http://dx.doi.org/10.14236/ewic/BCSIIT2014.6>

Hani Al Chalabi (Al Khawarizmi International College, UAE); Mustafa Al Emran (The British University in Dubai, UAE) Developing an IT Help Desk Troubleshooter Expert System for diagnosing and solving IT Problems <http://dx.doi.org/10.14236/ewic/BCSIIT2014.7>

Sohail Iqbal (Deakin University, Australia); Roy Mathew (Buraimi University College, Oman); Morshed Chowdhury (Deakin University, Australia); Jo Coldwell Neilson (Deakin University, Australia) Impact

of Assurance of Learning (AOL) in Programming Course for Novices
<http://dx.doi.org/10.14236/ewic/BCSIIT2014.8>

M1: Networks and Mobile Applications

Session Chair: Dr. Tahseen Al Doori

Oday Jerew (University Of Canberra, Australia); Kim Blackmore (The Australian National University, Australia); Masoud Mohammadian (Canberra University, Australia) Number of Paths and Neighbours Effect on Multipath Routing in Mobile Ad Hoc Networks
<http://dx.doi.org/10.14236/ewic/BCSIIT2014.9>

Bushra Qayyum (University of Chester, UK); Mohammed Saeed (Al Khawarizmi International College, UAE) Data Aggregation in Wireless Sensor Networks with Minimum Delay and Minimum Use of Energy: A Comparative Study <http://dx.doi.org/10.14236/ewic/BCSIIT2014.10>

Dongchen Zhang (CCMC, P.R. China); Shoufeng Wang (China Mobile Group Design Institute Co., Ltd., P.R. China); Xiaoyan Xu (CCMC, P.R. China); Xingzheng Li (CCMC, P.R. China); Wenwen Yao (CCMC, P.R. China); Tinglan Wang (CCMC, P.R. China) A Novel Long Term Traffic Forecast Algorithm
<http://dx.doi.org/10.14236/ewic/BCSIIT2014.11>

Saeed Al Mannae (Khalifa University, UAE); Rashid Al Matar (Khalifa University, UAE); Yousef Al Ahmedi (Khalifa University, UAE); Jamal Zemerly (Khalifa University, UAE); Ahmed Bentiba (Khalifa University, UAE) ICAPS: Intelligent Context Aware Profile Switching
<http://dx.doi.org/10.14236/ewic/BCSIIT2014.12>

David Ming Liu (EBTIC & KHALIFA University, UAE); Benjamin Hirsch (EBTIC & Khalifa University, UAE); Bashir Aden (Health Authority - Abu Dhabi, UAE); Ahmed Mohammad Abdalla (Health Authority - Abu Dhabi, UAE) Mobile Malaria Larval Source Surveillance
<http://dx.doi.org/10.14236/ewic/BCSIIT2014.13>

M2: Security and Imaging Applications

Session Chair: Dr. Thomas Martin

Juha K Mattila (Aalto University, Finland) Protecting National Assets Against Information Operations in Post-modern World <http://dx.doi.org/10.14236/ewic/BCSIIT2014.14>

Daniel Tse (City University of Hong Kong, Hong Kong); Zihuan LI (City University of Hong Kong, Hong Kong); Ka Fai Wong (City University of Hong Kong, Hong Kong); Yuhui Tao (City University of Hong Kong)

Kong, Hong Kong); Wei Liu (City University of Hong Kong, Hong Kong); Wai Hou Choi (City University of Hong Kong, Hong Kong) Two-factor Protection Scheme in Securing the Source Code of Android Applications <http://dx.doi.org/10.14236/ewic/BCSIIT2014.15>

Walid Alakk (Khalifa University, UAE); Hussain Al-Ahmad (Khalifa University) A New Watermarking Algorithm for Scanned Grey PDF Files Using Robust Logo and Hash Function <http://dx.doi.org/10.14236/ewic/BCSIIT2014.16>

Taha Dawod Jassim (University of Bradford, UK); Hussain Al-Ahmad (Khalifa University, UAE); Raed Abd-Alhameed (University of Bradford, UK); Ahmed Al-Gindy (Computer College, UAE) Two Levels Block Based Wavelet Watermarking Algorithm For Still Colour Images <http://dx.doi.org/10.14236/ewic/BCSIIT2014.17>