Introduction to Special Issue on Intelligent Systems and Performance Evaluation

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Preamble: The special issue of the International Journal of Computing and Digital Systems (IJCDS), focuses on intelligent systems and performance evaluation, and publishes selected papers from the 9th IEEEGCC 2017 conference May 9-10, 2017, Manama, Bahrain. The conference provided a forum for discussion among professionals from industries, academia and research institutions with the conference theme "Solutions for a Smarter Economy". The conference offered an excellent opportunity for scientists, innovators, and engineers to interact, share experiences and present their latest research with peers in a multidisciplinary engineering background. This conference also included tutorials and workshops as well as an industrial exhibition. The conference had eight different tracks that covers important aspects related to electrical and electronics engineering. Each paper reviewed by three members of the technical program review committee, and the accepted papers were presented during the conference, only six papers have been accepted as extended versions in this special issue.

Keywords: Intelligent Systems, OFDM, Performance Evaluation, Assessment

INTRODUCTION

This special issue sheds light on some of the important research contributions in intelligent systems and performance evaluation, the papers accepted for the Journal discuss many topics in communications technologies to improve many aspects of unreachable areas and improved routing protocols. Among these are Mobile Ad Hoc Network (MANET) that can be deployed easily regardless of time or place, information security and its impact on traffic flow and system throughput and digital image watermarking algorithm, with improved computational complexity. Radio frequency identification (RFID) techniques have been developed to overcome the barcode limitations. Passive chipless RFID tags are considered to be promising candidate with respect to other RFID, and the efficiency of CDMA's spread spectrum technology is also presented, Finally, attention is directed to the use of Neuro-Fuzzy learning for improving navigation tasks (mobile robot within hazardous localities).

Authors in paper [1] proposed a vertical pass algorithm between the IEEE 802.11e and 802.16e standards that meet the QoS requirements in traffic. The proposed algorithm is based on the Analytic Hierarchy Process (AHP) within an IEEE 802.21 framework. A simulation model has been constructed to evaluate the proposed algorithm in terms of connectivity through vertical scrolling, average delay, productivity, probability of blocking, and probability of reduction. The results confirm that the proposed algorithm satisfies the quality of service of different traffic types during vertical transport.

The authors in [2] present an interesting and topical study of a field, which is receiving a great deal of research effort internationally in collaborative multi-disciplinary research. The proposed outline focused on building intelligence for mobile robot navigation. This has been achieved by creating navigation intelligence capabilities while the robot is in motion. This paper combines learning abilities with visual data gathered through a stereo vision system for mobile robot path planning. The learning model adopted five neural layers of fuzzy learning architecture, due to the ability to create inference to enhance navigation. Integrating a learning paradigm with navigation data can make the mobile robot intelligent in navigating at complex spaces. However, the paper has to be improved by addressing the following issues.

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In [3], authors introduce a system for the automatic recognition of handwritten Arabic words based on the statistical characteristics extracted from the portfolio framework of features that exploit the discriminatory power of the Gabor features. A handwritten text image is filtered by a set of Gabor filters of various scales and orientations to extract local features based on the texture. The response of Gabor filters is organized into two layouts, viz. And Gabor statistical descriptors and Gabor descriptors, and fed on a portfolio of features to produce statistical representations of handwritten text. The features produced are used in a comprehensive handwritten word recognition system which is applied to handwritten Arabic checks and legal amounts of the general data set.

A new chipless RFID tags based on multiresonators is discussed in [4], as a preliminary design, the tag has a data capacity of 3-bits in the range from 2 to 2.25 GHz. The proposed tag consists of a multiresonating spiral circuit and two orthogonally polarized ultra-wideband (UWB) monopole antennas for realizing the cross polarization retransmission process. The prototype of the tag is designed on a Taconic TLX-8 substrate of dielectric constant 2.55 and thickness 0.787 mm. Authors claimed saving space of 30% with respect to the traditional resonator vortex can be achieved. A good agreement was observed between simulated and measured results.

The paper titled "Performance Evaluation of OFDM Based Watermarking Robust to Multipath Spatial Shifts" by Suja Kalarikkal Pulayikodi, Naser Tarhuni, Afaq Ahmed and Fahad Bait Shiginah [5], discusses A digital watermark is a visible or invisible pattern embedded in a digital image which can be used for copyright protection, authentication, broadcast monitoring, telemedicine and many more. This paper describes how an efficient CDMA based spread spectrum technique can be combined with the most prominent spectrum efficient OFDM technology to formulate a robust watermarking algorithm which is suitable for image distortions due to time delays and spatial shift that may occur during the transmission of watermarked images. A detailed simulation of embedding and decoding algorithm was performed and compared the performance with the existing DCT, DWT and FWHT based techniques. Simulation results reveal that the proposed algorithm is computationally efficient, robust and is well suited for wireless multipath fading channel. The algorithm was tested against a number of possible noises in the wireless channels and various geometric and signal processing operations. The proposed algorithm is proved to be robust enough to extract a good quality watermark compared to well-known techniques.

The last paper titled "Mobile Ad Hoc Network Routing Protocols: Performance Evaluation and Assessment" authored by Muawia A. Elsadig and Yahia A. Fadlalla [6], discusses MANET technologies in remote areas where human beings cannot reach. It investigates routing protocols and compares them in terms of the performances. The paper concludes that Dynamic Source Routing (DSR) and On-Demand Distance Vector Routing (AODV) outperforms Destination-Sequenced Distance Vector Routing (DSDV). It also provides an investigation into some popular Manet guidance protocols, this investigation is designed to evaluate the performance of MANET routing protocols using key performance indicators: productivity, end-to-end lag, and data packet delivery ratio. These indicators are usually used in such assessments. The investigation results showed that DSR and UDF outperform DSDF. In a high-density network (network with a large number of nodes), UDF beats DSP. While in a low-density network performance better dredged than UDF. Therefore, DSP applies to small networks. While UDF applies to large networks.

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Dr. Eesa Mohammed Bastaki is currently President of University of Dubai, and former CEO of the ICT Fund where he actively led the effort to create an eco-system in the UAE ICT industry, by encouraging entrepreneurship, funding R&D projects and University scholarships and implementing ICT initiatives at the school level. During his distinguished career he held many senior posts including Director of Education & Technology at the Dubai Silicon Oasis Authority (DSOA), Chairman of the Energy Section at the UAE University (UAEU) and Chairman of the Technology Section at the Technology & Energy Research Center of the UAEU. Dr. Bastaki is one of the founders of DSO and RIT-Dubai, and he is the founder of the IT Center in Al-Ain Municipality. One of his main achievements is proposing the conceptual design of Ankabut (NREN similar to Internet2) project to Etisalat in their "Strategic Planning for Higher Education" in 2003 which was implemented later on the 7th of August 2006. Dr. Bastaki's current professional activities include Chairman of the Technical Committee for the Emirates Energy Awards, Chairman of the Board of the Emirates Science Club, and Member of the Board of the Cultural & Science Association. He is board member and the Chair of the two Judging Committees: Drones for Good Award and Robotics & AI for Good Award. In addition, he's chairing Sheikh Khaled Bin Tannaf Al Menhali's Award for Innovation. Since its inception, he has been the chair of Shaikha Latifa Bint Mohammed Award for Child Innovation in two categories: Programming Innovation Award and Scientific Innovation Award. He is also the BOT Vice Chair of Sheikh Hamdan Bin Mohammed Award for innovation in Project Management. He is also a member of the judging committee for 10X initiative. Born in Dubai, Dr. Bastaki is a UAE national scientist and researcher; he studied abroad where he received his B.Sc. and M.Sc. degrees in Electrical Engineering from the University of California, San Diego and Ph.D. from the University of California, Irvine. His research interests are Multiple Access Communications, Coding and Synchronization. Dr Bastaki is the recipient of UAE's highest award "The Emirates Awards for Science, Arts and Literature" in sciences in 2009. He is also the recipient Sheikh Rashid's Award for Scientific Excellence. In 2014, he received the Middle East "ICT and Knowledge Development CEO Excellence Award".

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Wael Elmedany is currently an associate professor of Computer Engineering at University of Bahrain, Kingdom of Bahrain, Treasurer of IEEE Bahrain section, and senior member of IEEE society. Elmedany holds a PhD degree in Electrical Engineering, Manchester University, UK, 1999; MSc degree in computer communications, Menoufia University, Egypt, 1991; BSc degree in Electronic Engineering, Menoufia University, Egypt 1987. Elmedany was assistant professor of computer communications, department of Electrical Engineering, Cairo University, Fayoum branch, 2000-2005, and assistant professor of electronics and computer communications, in Faculty of Electronic Engineering, Menoufia University, Egypt, 1999-2000. Elmedany was the research and development director of Evara R&D, Egypt, 2001-2003, and general director of Varia IC, Egypt, 2003-2005. He is the founder and managing editor of International Journal of Computing and Digital Systems (IJCDS). He is the founder and Chair of MobiApps, DPNoC, and WoTBD workshops series, as well as SCCCS-17 and CS-HSC-17 in cyber security. El-Medany is a senior IEEE member, member of editorial boards and TPC member of many

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