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Research Interests

Computer network protocols evaluation ,
Cognitive Radio Network , SDN
e learning

Language Skills:

Arabic, English

Qualification (Career and University Education)

1992-1994	University Diploma in Electronics and Telecommunications Engineering	Sudan University Of Science and Technology, Sudan
1994-2000	B. Sc. Degree Electronics Engineering	Sudan University Of Science and Technology, Sudan
2000-2003	Master Degree in Computer Networks	Algazira University – Sudan
2007 - 2011	PhD Degree in Information and Communication Engineering	Huazhong University of Science and Technology Public Republic Of China

Career

2011-2014:	Assistant Professor in School of Electronics Engineering ,Sudan University of Science and Technology
2003 -2007	Lecturer in Electronics Engineering Department ,Sudan University of Science and Technology
1995 -2003	Teaching Assistant in Electronics Engineering Department ,Sudan University of Science and Technology

Spetemper2014

- Now Assistant Professor, Computer Science and Information Department, College of Science, Zulfi, Majmaah University

Publications

1. Sarah Eljack, Benxiong Huang, Lai Tu, Peng Zhang “Synchronized Multi-Channel Cognitive MAC protocol with Efficient Solutions for Second Spectrum Access” Symposia and Workshops on Ubiquitous, Autonomic and Trusted Computing, 2009 ,IEEE. P.P. 477-481. DOI: 10.1109/UIC-ATC.2009.31. (EI Compendex).
2. Sarah Eljack, Azhar Iqbal, Wang Furong, “A Multi Channel Cognitive MAC Protocol with Efficient Channel Reservation and Collision Avoidance Method” in Proc. Of MINES 09, IEEE. P.P 115-119. DOI: 10.1109/MINES.2009.44. (EI Compendex).
3. Sarah Eljack, Xu Zhengguan and Wang Furong, “MAC protocol for secondary link maintenance enhanced with primary behavior study” journal of mobile communication 3(3):47 – 53, 2009. ISSN: 1990-794x.
4. Muhammad Azhar Iqbal , Furong Wang , Xie Xu , Sarah M. Eljack , Ahmad H. Mohammad “Reactive routing evaluation using modified 802.11a. with realistic vehicular mobility “ Ann. Telecommun. Institut Télécom and Springer-Verlag 2011.
5. Hamidine MAHAMADOU1, Xiuhua YUAN, Eljack M. SARAH, Weizheng ZOU. “ Simulation and comprehensive assessment of single channel RZ-DPSK optical link by dispersion management with channel bit rate beyond 40 Gbits/s” . Higher Education Press and Springer-Verlag Berlin Heidelberg 2012. Front. Optoelectron.2012, 5(3):322–329.
6. . Sarah M.Eljack, Wang Furong, “Channel Allocation in Various Cognitive Radio Networks Phenomena” Journal of Engineering and applied science 3(10):748-753, 2008, ISSN: 1816-949X.
7. Sarah M.Eljack, Suhail Badwi ' Effect of the interior gateway routing protocols in the multiprotocol label switching networks a simulated comprison between IS-IS & OSPF routing protocols' ICCEE conference 2013
8. Noon Suliman , Sarah M.Eljack " Performance Evaluation of Multi-core Systems using SPEC CPU2006 Benchmark" Red Sea University Journal of Basic and Applied Science ISSN: 1858-7658 (Online) Vol (2) Special Issue (2) April-2017 .

Teaching Experiences

Basics of Computer Programming , C programming language, Operating System, Network Operating System, Networks Security , Very Large Scale Integrated Circuits (VLSI), Linux Operating System ,Microprocessor System ,Computer Architecture ,Very High Speed Integration Circuits Description Language (VHDL), Data Communication, Modern Communication , Mobile Computing, Fault Tolerant Systems, Principles of Electronics, Software Engineering , Computer Graphics , System Programming , Information Storage Systems, Computer Interface Systems, Microcomputer and Microprocessor System. Computer organization and Assembly language, wireless network and mobile computing,

Training Experiences

2004: ICDL Training - Sudan

2005: Training in cellular network techniques (GSM, CDMA, UMTS) - Eygept

2010 Optic fiber communication WRI product series - China

20013: Training for two months Microcontroller and Embedded systems programming - SDN

2015: Training in Teaching strategies and exam preparation - KSA

2015: D2l tools Training - KSA

2017: TOT training - KSA