



DR. KHALID G. SAMARAH AL-ZOUBI

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Date of Birth: 29 May 1969, Nationality: Jordanian

EDUCATION

- [1] PhD in High bit rate air interface for next generation mobile communication systems from the University of Bradford in UK, 2007.
- [2] MSc in Personal Mobile Satellite Communications from the University of Bradford in UK, 2003. Cumulative Average: 70.27%. Overall Assessment: Distinction.
- [3] Bachelor in Electrical Engineering\Telecommunications, from Mutah University in Jordan, 1987-1991. Cumulative Average: 76.27%. Overall Assessment: V. Good.

EMPLOYMENT

- [1] Associate Professor in Mutah University from 06/12/2017 until now.
- [2] Assistant Professor in Mutah University from 17/02/2008 to 06/12/2017.
- [3] Special Communication Commission, Jordan- System Engineer 1998-2002. A communication commission has more than 70 microwave sites all over the country, supplies the customers with different types of communication services, landline telephones, data and wireless Hand Held systems.
- [4] Government, Jordan-Wireless Engineer, 1991-1998. Governmental division specialised in the wireless RF communications. Deals with providing communication core network to their own customers with wireless handhelds and vehicle equipped systems to help them accomplished their jobs.

ACADEMIC EXPERIENCE

I have been lecturing the following subjects:

1. 0401121 Principles of General Electric
2. 0401205 Electric Materials
3. 0401208 Signals and systems
4. 0401212 Electrical Circuits II

5. 0401216 Electrical Engineering
6. 0401217 Electrical Engineering Essentials
7. 0401323 Communication Principles for Power Engineering Students
8. 0401421 Communication I
9. 0401422 Communication II
10. 0401522 Communication Systems
11. 0401526 Data Transmission
12. 0401527 Optical Fibres for BSc Students
13. 0401593 Selected Topics in Telecommunication Engineering (GSM Networks)
14. 0401595 Digital Broadcasting Technology
15. 0401624 Fibre Optics Engineering for MSc Students
16. 0401725 Cellular Telecommunication Systems for MSc
17. 0406345 Measurement Instruments and Systems

I have been advising the following labs:

1. 0401219 Electric Circuits Lab
2. 0401337 Logic Design Lab
3. 0401428 Analogue communications Lab
4. 0401448 Measurements and Systems Lab
5. 0401523 Digital Communications and Communication System Lab

QUALIFICATIONS & SKILLS PROFILE

[1] International Computer Driving Licence (ICDL), 2002. On the 23rd of January 2002 I have obtained the ICDL from the UNESCO Cairo office after succeeding all the seven test packages issued by this office. These packages are shown below:

1. Basic concepts of information technology
2. Using the computer and managing files
3. Word processing
4. Spreadsheet
5. Database
6. Presentation
7. Information and communication

[2] Good working knowledge in computer hardware, maintaining, assembly and setup for new personal computers.

- [3] Good working knowledge of MATLAB software for telecommunication simulations.
- [4] Microsoft Office Visio, Word, PowerPoint, Excel, Access.
- [5] NEC4WIN95 software for antenna design.
- [6] Moseley Corporation, California, USA- Training course, summer 2000. A certificate of completion is presented to me in recognition of completion of Moseley training including NX-E1 digital radio system, covering maintenance, configuration, and operations training in Moseley facilities in Santa Barbra, California, USA.
- [7] Good experience in microwave communications, maintenance and installation of equipment's

CONFERENCES AND MEETINGS

- [1] The European Conference on Antennas and Propagation: EuCAP 2006 (ESA SP-626). 6-10 November 2006, Nice, France.
- [2] The Tenth Arab Conference of Mineral Resources. The Hashemite Kingdom of Jordan - Amman: 23-25/11/ 2008.
- [3] Users Meeting in the framework of the LinkSceem consortium organized by the Computation Science and Technology Research Centre (CSTRC) of the Cyprus Institute, the Jordan University Network (JUNET) and SESAME on November 6th in Amman, University of Jordan – Auditorium of the Languages Centre.

MSC THESIS COMPLETED (AUTHOR AND SUPERVISOR)

- [1] K. G. Samarah, "*High bit rate air interface for next generation mobile communication systems*," PhD, School of Engineering, Design and Technology, University of Bradford, Bradford, 2007.
- [2] S. Btoosh and K. G. Samarah, "*Investigation into Schemes of Improving Range, Coverage and Increasing Data Rate for WiMAX Applications*," Master, Electrical Engineering Department, Mutah University, 2009.
- [3] A. Al-Harasis and K. G. Samarah, "*Design of a Multi-programmable Indirect Frequency Synthesizer*," Master, Electrical Engineering Department, Mutah University, 2010.
- [4] M. t. S. Al-Drose and K. G. Samarah, "*Investigating the PAPR Reduction Techniques for OFDM Systems under the Conditions of Rapidly Changing Time Varying Channel* " Master, Electrical Engineering Department, Mutah University, 2011.

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- [5] R. M. AlTemah and K. G. Samarah, "***Investigating on the Effect of Radon Transformation on Mitigating the OFDM Drawbacks for WiMAX Systems,***" Master, Electrical Engineering Department, Mutah University, 2017.
- [6] H. b. Habeeb and K. G. Samarah, "***Wavelet Based OFDM in IEEE802.11a WLAN,***" Master, Electrical Engineering Department, Mutah University, 2013.
- [7] H. M. A. Jawabrh and K. G. Samarah, "***Hybrid Peak to Average Power Ratio Reduction in QPSK-Based OFDM Systems,***" Master, Electrical Engineering Department, Mutah University, 2017.
- [8] A. W. Mustafa and K. G. Samarah, "***Adjacent Channel Interference Reduction in OFDM Systems,***" Master, Electrical Engineering Department, Mutah University, 2017.
- [9] R. M. Al-Sarayrah and K. G. Samarah, "***Investigation towards ACI and PAPR reduction techniques in OFDM systems using high levels modulation techniques,***" Master, Electrical Engineering Department, Mutah University, 2019.

MSC THESIS VIVA MEMBER

- [1] Raed Al-Nawaisah, "***Design Considerations and Model Analysis of OFDM Systems***"
- [2] Enshirah Al-Tarawneh, "***Clustering Techniques in Routing Algorithm for Enhancing Network Performance***"
- [3] Ahmad Bdairat "***Mobile Based Location using Smart Antenna Technology***"
- [4] Anwar Al Tarawneh "***An Improved Performance OFDM Channel Estimation Using Pilot-Symbol-Aided Technique***"

PUBLICATIONS

JOURNALS

- [1] K. G. Samarah, S. Jones, and R. A. Abd-Alhameed, "Performance assessment of mobile OFDM-based systems: Variability within given wideband channel Categories," in *Journal of Communications and Computer* vol. 7, July 2014 ed, 2014, pp. 64 - 74.
- [2] C. See, E. Elkazmi, K. Samarah, M. Khambashi, A. Ali, R. Abd-Alhameed, *et al.*, "A Printed Wideband MIMO Antenna for Mobile and Portable Communication Devices," in *Wireless and Satellite Systems*. vol. 154, P. Pillai, Y. Hu, I. Otung, and G. Giambene, Eds., ed: Springer International Publishing, 2015, pp. 239-248.

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- [3] K. G. Samarah, "Mobile Positioning Technique Based on Timing Advance and Microcell Zone Concept for GSM Systems," *International Journal on Communications Antenna and Propagation (IRECAP)*, vol. 6, issue. 4, p. 10, August 2016.
- [4] K. G. Samarah, "Localization of Mobile Stations from ONE Base Station in GSM Systems," *International Review on Computers and Software (IRECOS)*, vol. 11, issue. 5, p. 9, May 2016.
- [5] H. M. A. Jawabrh and K. G. Samarah, "Hybrid Peak to Average Power Ratio Reduction Technique in QPSK-Based Orthogonal Frequency Division Multiplexing Systems," *International Journal on Communications Antenna and Propagation (IRECAP)*, vol. 7, issue. 5, p. 10, October 2017.
- [6] A. W. Mustafa and K. G. Samarah, "Adjacent Channel Interference Reduction in OFDM Systems," *Jordanian Journal of Computers and Information Technology (JJCIT)*, vol. 3, issue. 2, p. 21, August 2017.
- [7] K. G. Samarah, "Improved Clipping Technique for Reducing the Peak to Average Power Ratio in OFDM Systems," *Jordan Journal of Electrical Engineering (JJEE)*, vol. Volume 3, issue. Number 1, p. 14,

CONFERENCES

- [1] K. G. Samarah and S. M. R. Jones, "Assessment of high bit rate mobile OFDM systems using the *CODIT* channel model," in *First European Conference on Antennas and Propagation, 2006. EuCAP 2006.*, 2006, pp. 1-6.
- [2] **S.M.R. Jones, K.G. Samarah, Y.A. Dama, R A Abd-Alhameed and W. Rasheed, E.A. Elkhazmi**, *Assessing variability in the wideband mobile radio channel*, 6th International ICST Conference on Mobile Multimedia Communications, EERT-2, (MobiMedia 2010), Lisbon, Portugal 6-8 September 2010, Paper No. 2, pp. 1-8, ISBN: 978-963-9799-98-1
- [3] S. R. Jones, K. Samarah, Y. Dama, R. Abd-Alhameed, W. Rasheed, and E. A. Elkhazmi, "Assessing Variability in the Wideband Mobile Radio Channel," in *Mobile Multimedia Communications*. vol. 77, J. Rodriguez, R. Tafazolli, and C. Verikoukis, Eds., ed: Springer Berlin Heidelberg, 2012, pp. 654-660.
- [4] H. A. Obeidat, W. Shuaieb, H. Alhassan, K. Samarah, M. Abousitta, R. A. Abd-Alhameed, *et al.*, "Location based services using received Signal Strength algorithms," in *Internet Technologies and Applications (ITA), 2015*, 2015, pp. 411-413.