Dr. Ghassan R. Alnwaimi BSc, MSc, PhD
Associate Professor, Department of Electrical and Computer Engineering, King Abdulaziz University

Education

Degree Field of Study	Institution	Year
PhD in **Cognitive Radio Systems and Self-Organization Networks**	**Univ. of Surrey**, Guildford, UK	**2010-2014**
MSc in **Mobile and Satellite Communications**,	**Univ. of Surrey**, Guildford, UK	**2008-2009**
BSc in **Electronics & Communication Engg.**	**KAU**, Jeddah, Saudi Arabia	**2002-2006**

Academic Experience

From To	Institution	Rank	Title	Full or Part Time
2014-2018	King Abdulaziz University	Assistant Professor		Full Time
2018-NOW	King Abdulaziz University	Associate Professor		Full Time

Non-Academic Experience *(Including Consultations)*

- 2006 Siemens – Jeddah : *Power Transmission and Distribution (Communications Solution for Power Utilities).*
- 2005 Saudi Aramco Company- Dhahran *On Communication Repair & Logistic Division.*

Funded Research Projects and Patents From The Last Five Years

- **Research No. 20624, Code: G: 613-135-1439, 1439 AH:** Adaptive Packet Length and Adaptive MCS using Average and Instantaneous SNR for RF, FSO and VLC communications
- **Research No. 31284, Code: G: 615-135-1439, 1439 AH:** Optimal packet length for ARQ and HARQ I with Chase Combining

Certifications and Professional Registrations
Current Membership in Professional Societies and Organizations

2010-NOW	Member of the IEEE Communications Society
2018-NOW	Member of the IEEE TEMS
2010-NOW	Member of the IEEE Young Professionals
2006-2008	Member: MEMS, NEMS and Industrial Nano Applications groups at Centre of Nano Technology at KAU

Honors and Awards

1999	Honour Student certificate from the Ministry of Education.
2000	Badge from the ministry of education for achieving rank 9 in the Mathematical Olympiad, Saudi Arabia
2001	Badge from the ministry of education for community activities; 1st rank, Saudi Arabia
2003-2006	Honour Student certificates from KAU
2005-2006	Represent the Engineering College in the consultation committee for KAU chairman
2018, 2019	Achieving the award of the exemplary student branch in region 8

Institutional and Professional Services

2015-NOW	Vice-dean of Library Affairs, Deanship of Library Affairs, Jeddah, KAU
2018-NOW	Vice-chair, Technology Engineering and Management Society TEMS, Institute of Electrical and Electronics Engineering IEEE
2018-NOW	IEEE KAU student branch Counselor,
2010-2014	Deputy Club Leader, Cognitive Radio research club, Institute for Communication Systems (ICS), University of Surrey, UK

Reviewed articles for IEEE Transaction on Vehicular Technology, IEEE Communications Letters, IEEE Communications Magazine, IEEE Transaction on Wireless Communications, IEEE Transaction on Communications

Principal Publications/Presentations from the Past Five Years

1. G Alnwaimi, H Boujemaa, "Performance Analysis of HARQ protocols for RFID systems in the presence of a two states Markov channel model", 13th International Conference on Signal Processing and Communication, 2019
2. G Alnwaimi, H Boujemaa," Delay Analysis for Visible Light Communications", 13th International Conference on Signal Processing and Communication, 2019
3. G Alnwaimi, H Boujemaa,"Enhanced spectrum sensing using a combination of energy detector, matched filter and cyclic prefix", Digital Communications and Networks, 2019
4. G Alnwaimi, H Boujemaa,"MGF Approach to Compute the Packet Error Probability and Throughput for OFDM, CDMA and MC-CDMA Systems", Arabian Journal for Science and Engineering 44 (8), 7003-7011, 2019
5. G Alnwaimi, H Boujemaa,"Average and Instantaneous Throughput Maximization for Millimeter Wave Communications". 15th International Wireless Communications & Mobile Computing, 2019

6. G Alnwaimi, H Boujemaa, K Arshad,"Packet Length Optimization for Two Way Relaying", 15th International Wireless Communications & Mobile Computing, 2019
7. G Alnwaimi, H Boujemaa,"Instantaneous Throughput Maximization for Cognitive Radio Networks", 15th International Wireless Communications & Mobile Computing, 2019
8. G Alnwaimi, H Boujemaa,"Throughput analysis and optimization of cognitive radio networks using incremental relaying", Telecommunication Systems 71 (2), 231-247, 2019
9. G Alnwaimi, H Boujemaa,K Arshad, "Optimization of Packet Length for Two Way Relaying with Energy Harvesting",
10. International Journal of Computer Networks & Communications (IJCNC) Vol 11, 2019
11. G Alnwaimi, H Boujemaa,"Instantaneous and Average Throughput Maximization for Visible Light Communications",
12. 26th International Conference on Telecommunications (ICT), 210-214, 2019
13. G Alnwaimi, H Boujemaa,"Enhanced Data Rates for Energy Harvesting Systems", 26th International Conference on Telecommunications (ICT), 6-10, 2019
14. G Alnwaimi, H Boujemaa,"Optimal Packet Length for Cooperative Systems", 26th International Conference on Telecommunications (ICT), 36-40, 2019
15. G Alnwaimi, H Boujemaa,"Relay Selection for Broadcast Underlay Cognitive Radio Networks Using AF and DF Relaying", Arabian Journal for Science and Engineering 44 (3), 1903-1916, 2019
16. G Alnwaimi, H Boujemaa, K Arshad"Optimal Packet Length for Free-Space Optical Communications with Average SNR Feedback Channel", Journal of Computer Networks and Communications 2019
17. G Alnwaimi, H Boujemaa, K Arshad,"Optimization of Packet Length for MIMO systems", International Journal of Computer Networks & Communications (IJCNC) Vol 11, 2019
18. G Alnwaimi, H Boujemaa,"Optimal packet length for cognitive radio networks", Physical Communication 31, 96-102, 2018
19. G Alnwaimi, H Boujemaa,"Adaptive packet length and MCS using average or instantaneous SNR", IEEE Transactions on Vehicular Technology 67 (11), 10519-10527, 2018
20. G Alnwaimi, H Boujemaa,"New adaptive link layer protocol using optimal packet length for free space optical communications", 27, 46-53, 2018
21. G Alnwaimi, S Vahid, K Moessner, "Distributed learning game based spectrum sharing and resource selection for femtocells", 22nd International Conference on Telecommunications (ICT), 331-337, 2015

Recent Major Professional Development Activities (*Workshops, Trainings etc.)*

1. The 22nd International Conference on Telecommunications (ICT), Sydney, Australia, 27-29 April 2015
2. 4G and Next Generation Mobile Internet, ITU Centers of Excellence for Europe 22 November-19 December 2016
3. Wireless for the Internet of Things (IoT), IEEE Continuing Education, 8 November, 2017 New York, NY, USA
4. Effective Personal Productivity, Leadership Management International Inc, March-May/2017
5. Strategic Planning in Academic Library, Naseej Academy, 6-9 February, 2018 Dubai, UAE
6. Presenting a workshop titled "Leadership and Teamwork", University of Business and Technology, 7th of November, 2017, Jeddah, Saudi Arabia
7. Presenting a workshop titled "Leadership and Teamwork", University of Business and Technology, 9th of December, 2017, Jeddah, Saudi Arabia
8. Presenting a training course during the workshop of the Diploma of Professional Development in Teaching and Learning 2016/2017
9. 23rd Annual conference and exhibition of The special Libraries Association/Arabian Gulf chapter, "Quality of Library and information on Training and Educational Programs: The Way Map Toward Accreditation", 7-9 March 2017, Bahrain
10. Attending the 28th Arab Federation for Libraries and Information, 27-29/11/2017, Cairo, Egypt
11. Presenting a workshop "The Wheel of Life; Work-Life Balance", King Abdulaziz University, 17/11/2018
12. Effective Motivational Leadership, Leadership Management International Inc, September-November 2018
13. Workshop on Digital Resources, Research and Reference Services, King Abdulaziz University, 21th of October 2018
14. Workshop on Digital Resources for Science, Engineering and Technology, King Abdulaziz University, 22th of October 2018
15. Future Book Forum, Munch, Germany, October, 201 9
16. Electronics Learning Resources Conference, Sharjah, USE, November, 2019
17. 13th International Conference on Signal Processing and Communication, Gold Coast, Australia, December, 2019
18. 15th International Wireless Communications & Mobile Computing, Tangier, Morocco, June, 2019
19. 26th International Conference on Telecommunications (ICT), Hanoi, Vietnam, April, 2019