Ahmad Baheej Al-Khalil

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Profile

A specialist lecturer in Computer Science with a PhD in computer communication. An expert in computer networks, E-learning and network security, and has an exemplary management record in organizing conferences and E-learning platforms. A Research Engineer, with an adept facility to manage the whole project life cycle; creating projects from concept to completion whilst capturing, analysing and documenting requirements to support effective communication and successful delivery. Both a team player and an independent thinker, with valuable analytical, problem solving and decision-making skills and a genuine passion for the new technologies.

Education

July 2016	Doctorate of Philosophy (PhD) in Computing - University of Northampton, UK.
Feb 2009	Master of Science (MSc) in Computing - University of Buckingham, UK.
Jan 2008	Graduate Diploma in Computing - University of Buckingham, UK.
Aug 2003	Bachelor of Science (BSc) in Computing - University of Mosul, Iraq.

Publication

Books

V-SCME: A Developed Channel Model and Coding for V2V Communication. LAP Lambert Academic Publishing (2018).

Book Chapter

Utilising SCM – MIMO channel model based on V-BLAST channel coding in V2V communication. Springer (2015).

Journal Publications

- Performance Improvement of Ber Based on Multipath Forward Error Correction Diversity in Wireless Communication Channels. Journal of University of Duhok (2020).

- Efficient Mechanism for Securing Software Defined Networking Against ARP Spoofing Attack. Journal of University of Duhok (2019).

Conference Papers

- A Real Time Parking Reservation System Based on Vehicular Cloud Computing. 2020 International Conference on Computer Science and Software Engineering. IEEE (2020).
- A Secure Mechanism to Prevent ARP Spoofing and ARP Broadcasting in SDN. 2020 International Conference on Computer Science and Software Engineering. IEEE (2020).
- TQAIOD: A Backup Technique to Surpassing the Internet Outage. 2020 International Conference on Computer Science and Software Engineering. IEEE (2020).

- Impact of Alamouti Space – Time Block Coding on the Performance of Vehicle to Vehicle Communication. International Conference on Advanced Science and Engineering. IEEE (2018).
- Performance of BCH and RS Codes in MIMO Systems Using MPFEC Diversity Technique. International Conference on Advanced Science and Engineering. IEEE (2018).
- A predefined channel coefficient library for vehicle – to vehicle communication. International Workshop on Reliable Networks Design and Modelling. IEEE (2015).
- Feasibility study of utilising SCM – MIMO channel model in V2V communication. International Workshop on Communication Technologies for Vehicles (Nets4Cars-Fall). IEEE (2014).
- Enhancing the PHY layer in V2V communication using OFDM – MIMO techniques. PGNET Liverpool – UK (2013).

Work History

LECTURER IN COMPUTER SCIENCE
HEAD OF COMPUTER NETWORKS AND SYSTEM SECURITY RESEARCH GROUP   **Sep 2017 - Date**
University of Duhok - Iraq

Main Activities and Responsibility
- Teaching at undergraduate level 1 and 4 Logic Design, Internet of Things IoT and Wireless Communication.
- Supervising group projects for level 4 undergraduate students.
- Teaching at graduate level Mobile and Wireless Communication for MSc degree students.
- Supervising graduate students' projects for MSc students.

RESEARCH ASSOCIATE IN COMPUTER SCIENCE
University of Northampton - UK   **Sep 2016 - Aug 2017**

Main Activities and Responsibility
- Lecturer: Role encompassed mobile and wireless communication for MSc degree students; Computer Network for level 4 undergraduate students; Supervising group projects for computer network pathway for level 5 undergraduate students.

- Developing and delivering a strategic vision for the Universities technical/research and related commercial activities, involving: Ideas

development; forward planning; analysis and evaluation; problem solving and using broad business development skills to drive forward investment.

LECTURER IN COMPUTER SCIENCE
University of Duhok - Iraq
Mar 2016 - Aug 2016

Main Activities and Responsibility
- Teaching at undergraduate level Computer communications; Wireless and advanced network technologies; Programming languages C, C++ and MATLAB; Information security in communication.
- Teaching at graduate level mobile and wireless communication for MSc degree students.
- Supervising or assist with supervision of undergraduate and graduate students.
- Carrying out research and produce publications.
- Contribute to the development, planning and implementation of a high-quality curriculum.
- Assisting in the development of learning materials, preparing schemes of work and maintaining records to monitor student progress, achievement and attendance.
- Participating in departmental and faculty seminars aimed at sharing research outcomes and building interdisciplinary collaboration within and outside the department.
- Participating in the development, administration and marking of exams and other assessments.
- Participating in the administration of the department's programmes of study and other activities as requested.

ACADEMIC RESEARCHER IN COMPUTER SCIENCE
University of Northampton - UK
Dec 2011 - Dec 2015

Main Activities and Responsibility
- **Vehicular Communication**: 5 years investigation of VANET channel, performance, and statistical modelling as well as routing and traffic analysis. Carried-out partially in cooperation with Kier-WSP, Northampton County Council and EU consortium Nets4Cars.
- Teaching at undergraduate level Computer communications; Wireless and advanced network technologies; Project management; Web technologies.
- Teaching at graduate level Mobile and wireless communication for MSc degree students (Practical sessions).
- Attended and contributed to several professional conferences and workshops.

ASSISTANT LECTURER IN COMPUTER SCIENCE
University of Duhok - Iraq
Mar 2009 - Oct 2011

Main Activities and Responsibility
- Teaching at undergraduate level Computer network; Web technologies; Information security in communication.
- Supervising undergraduate graduation projects.
- Administration and mentoring students in relevant computer science fields.
- Assessment of students' work and progress.

INSTRUCTOR IN COMPUTER SCIENCE

University of Mosul and University Duhok - Iraq

Main Activities and Responsibility

- Teaching assistant of Computer network; Web technologies; Computer logic design.
- Administrator of the intranet.
- Designer of databases for the management unit and the library.

Professional Experience

- Experience in organising international conferences.

- Experience in E-learning platforms: administrating and training.

- Experience of maintaining professional ethical and responsible interactions with students, faculty and staff.
- Experience of leading the University Computing staff emphasizing the importance of the professional relationship between students and staff.
- Experience in helping students to engage and develop their critical thinking skills with above average results.
- Advanced problem solving and numeracy skills that were developed from teaching and seminars.
- Skilled communicator with strong people skills, sensitive to students' specialised and changing needs.
- Accomplished communication skills, both written and verbal, developed through numerous years of teaching and learning.
- Experience directing research students on their dissertation projects.
- Able to make significant contributions towards university objectives.
- Developed an analytical and conceptual thinking, with a conscientious approach to managing workloads with more than 14 years of experience working in the field of computer science.
- Enhanced research and Information management skills by developing and organising principles to effectively interrupt and evaluate data.
- Solid experience demonstrating good practice in developing modules.

Other Skills and Qualifications

- **AAT Level 1 Award:** AAT level 1 award in Accounting (QCF). The association of accounting technicians in the UK 2017.
- **AAT Level 1 Award:** AAT level 1 award in Bookkeeping (QCF). The association of accounting technicians in the UK 2017.
- **AAT Level 1 Award:** AAT level 1 award in Computerised Accounting (QCF). The association of accounting technicians in the UK 2017.
- **Higher Education Survival Plus:** University's staff development scheme workshop offered by the institute of learning and teaching in HE. University of Northampton 2014.
- **Diversity in The Workplace:** E-learning course that covers the most up to date equalities legislation and enables staff to gain an understanding of the

broader equality and diversity issues facing FE institutions. University of Northampton 2014.

- **Advanced OPNET Modeller:** A training course for Operations Network Optimised Network Engineering Tools software that provided performance management for computer networks and applications. OPNET Technologies 2012.
- **Faculty Academic Capacity Building:** University's Staff development scheme course offered by the training and development centre. University of Duhok 2010.
- **CISCO Certificate Network Associate CCNA:** A course for network specialists, network administrators and network support engineers. University of Duhok 2010.

Professional Affiliations and Memberships

1. Professional Member of the Association for Computing Machinery **ACM**.
2. Professional Member of the British Computer Society **BCS**.
3. Member of the Institute of Engineering and Technology **IET**.
4. Member of the Institute of Electrical and Electronics Engineers **IEEE**.

Conference Proceedings, Seminars and Workshops

CONFERENCE PROCEEDINGS

- 2020 International Conference on Computer Science and Software Engineering.
- 5th Kurdistan International Conference on Science and Technology (April 2019).
- 2nd International Conference on Advanced Science and Engineering (April 2019).
- 2nd Conference of Computer Science 2019 (SCCS 2019). (March 2019).
- 2nd International Conference on Electrical, Communication, Computer, Power and Control Engineering (February 2019).
- 2nd International Conference for Engineering Technology and Science (Dec 2018).
- International Conference on Advanced Science and Engineering (Oct-2018).
- Symposium on Communications and Vehicular Technologies (SCVT). (Nov – 2016).
- 10th International Workshop, Nets4Cars/Nets4Trains/Nets4Aircraft. (June – 2016).
- 9th International Workshop, Nets4Cars/Nets4Trains/Nets4Aircraft. (Oct – 2015).
- University of Northampton: The Graduate School's Annual Postgraduate Research Conference. (June – 2015).
- 8th International Workshop, Nets4Cars/Nets4Trains/Nets4Aircraft. (May – 2015).
- 7th International Workshop, Nets4Cars/Nets4Trains/Nets4Aircraft. (Oct – 2014).
- 5th International Conference on Data Communication Networking (Aug – 2014).
- 15th Annual Post Graduate Symposium on the Convergence of Telecommunications, Networking and Broadcasting. (June -2014).
- 2nd International Conference on Future Generation Communication Technology. (Nov – 2013).

- 14th Annual Post Graduate Symposium on the Convergence of Telecommunications, Networking and Broadcasting. (June – 2013).
- University of Northampton: The Graduate School's Annual Postgraduate Research Conference. (June – 2013).
- 24th Annual IEEE International Symposium on Personal, Indoor, and Mobile Radio Communications. (April – 2013).
- University of Northampton: The Graduate School's Annual Postgraduate Research Conference. (Sep – 2012).
- 13th Annual Post Graduate Symposium on the Convergence of Telecommunications, Networking and Broadcasting. (June – 2012).

SEMINARS

- Fiber Optic Technology (Dec-2019).
- Introduction to Modeling and Simulation. (Dec-2019).
- 5th Generation Mobile Networks. (July-2019).
- Second Life: Using Virtual Worlds in Education. (April-2019).
- 3-Stage Junction Detection in Document Images. (Dec-2018).
- Alamouti Space-Time Block Coding in V2V Communication. (Oct-2018).
- IoT Journey from Engineering Innovations to Social Impacts. (Feb -2017).
- Future Mobile Internet and 5th Generation Network. (Aug – 2016).
- Modes of Wireless Communication. (May -2016).
- The Efficiency of Using VANETs for Smarter City. (Mar – 2015).
- MIMO Channel Models and Coding. (Mar – 2013).
- Integrated Transport - In Field Solutions Competition Briefing. (Oct – 2013).
- OFDM-MIMO Techniques in VANETs. (Feb – 2013).
- Vehicle to Vehicle Communication System. (April – 2012).
- Vehicular ad-hoc Networks VANETs. (Feb – 2012).

WORKSHOPS

- The Basics of Using Moodle Platform for E-Learning (May – 2020).
- Intellectual Property for Researcher. (Nov – 2020).
- Successful Research Proposal & Ethics. (July – 2020).
- Creativity in Research. (May – 2019).
- Preparing for VIVA. (Aug – 2018).
- Editing and Finishing Your Thesis. (April – 2018).
- Proofreading Your Work. (Feb – 2018).
- Analysing Questionnaire Data. (Dec – 2017).
- Turbocharge Your Writing. (Sep – 2017).
- Developing a Research Track Record on a Shoestring. (July – 2017).
- Communicating the Impact of Your Research. (July – 2017).
- Intellectual Property for Researcher. (May – 2017).
- Career Management for Researchers. (Dec – 2016).
- Excellent Conference Presentations. (June – 2016).
- Poster Design and presenting. (Feb – 2016).
- Getting Ethical approval and Risk assessment. (Dec – 2015).
- Evaluating Qualitative Research. (Nov – 2015).
- Presentation skills. (Sep – 2015).
- Keeping up to date in the age of social media. (Aug – 2015).
- Creating Harmonious Relationships with your Supervisors. (Feb – 2015).

- Leadership Skills for researchers. (Dec – 2014).

REFERENCES AVAILABLE UPON REQUEST