Abdulmajid Mohammed Al-Mqdashi

Date and Place of Birth: 01/05/1982 (Yemen).   **Marital Status:** Married

Email: **abdulmajid.almqdashi@gmail.com**   **Mobile**: +967-778011011

ORCID: 0000-0001-8779-594X   **ResearcherID: G-5914-2019**

Website: *Google Scholar* - *ResearchGate* - *Publons*

👤 PROFILE

I received the B.Sc. degree in Computer Engineering from Jordan University of Science and Technology (JUST), Jordan in 2006; the M.Sc. in Computer Science from University Putra Malaysia (UPM), Malaysia in 2011. I was awarded my Ph.D. in Network and Communication Systems Engineering from UPM in April. 2019.

My academic experience summary includes working as an assistant professor at Thamar University and other universities in Yemen since September 2019, a senior researcher as well as a lecturer assistant at Faculty of Engineering, UPM (2014-2019). Also, a lecturer in the Faculty of computer Science and IT at Thamar University, (2006-2009) and (2011-2012).

My research interests include wireless communications and networks, Cognitive Radio, Ad-hoc networks, D2D networks, 5G, Millimeter-Wave communications, Cyber Security, IoT, SDNs, SWIPT and NOMA systems, Cloud and Edge Computing, and Data Science.

🎓 EDUCATIONAL QAULIFICATIONS

Ph.D of Communications and Networks Engineering from Department of Computer and Communication Systems Engineering, Faculty of Engineering, UPM, Malaysia, **Apr-2019**. **Title:** "Efficient Blind Rendezvous Schemes for Cognitive Radio Ad-Hoc Networks".

Master of Computer Science from Department of Communication Technology and Network, Faculty of Computer Science and IT, UPM, Malaysia, **Feb-2011. CGPA: 3.9 / 4.0 (Excellent).** **Title** "An effective Scatternet Formation Protocol for VOIP and Multimedia Applications".

Bachelor of Computer Engineering, Department of Computer Engineering, Faculty of Computer and Information Technology, JUST University, Jordan. **July-2006. Rank*: Very Good***

💻 WORK EXPERIANCE

Assistant Professor *(September 2019 – Now)*

Faculty of Computer Science at Thamar University and other universities in Yemen (Twentech University, Saba University, The Emirates University, Yemenia University, and the Academia).

    1- Teaching undergraduate and postgraduate courses on Computer Science & Engineering

    2- Supervising undergraduate and postgraduate students

    3- Curriculums preparation, evaluation, and accreditation.

A Senior Researcher and a Lecturer Assistant (*September. 2014 – April. 2019)*

Faculty of Engineering, UPM, Malaysia.

    1- Carried out research in Computer networks and communication systems with specific focus on wireless networks and Cognitive Radio Networks (CRNs).

    2- Assisted in preparing several research proposals for international and local funding.

    3- Collaborated with my supervisors in assisting postgraduate students in their own research and in teaching courses on computer networks for under-graduates.

A Lecturer and ICT Officer *(March 2011 – June 2013)*

Faculty of Computer Science and the IT Center, Thamar University, Yemen
Major Tasks: -
- 1- Taught the courses of computer networks, database systems, & Computer Architecture
- 2- Managed ICT service and administered segments of LANs & independent networks.

A Programmer and Network Administrator (*Aug 2008 – May 2009***)**

Labour Market Information System (LMIS), United Nations Development Program (UNDP). Yemen
Major Tasks: -
- 1- Developing and Programming of LMIS project.
- 2- Installations of Oracle workgroup for NetWare and Windows NT.
- 3- Design DB, forms, & reports for survey (Labour Force and Establishments).
- 4- Worked as a Network Administrator and Perform the network and programs connection between LMIS-UNDP and 8 branches in Yemen via (ISDN Cisco Routers).

A Lecturer Assistant & ICT Technician (*September 2006 – July 2008***)**

Faculty of Computer Science and IT, Thamar University, Yemen.
Major Tasks: -
- 1- Taught the course of *computer skills* as well as the practical labs of *computer architecture Digital logic design, and computer networks* courses for under-graduate students.
- 2- Providing support for proper use and access of networked resources and services.
- 3- Ensuring proper functioning of computer equipment's and other ICT services.

Computer and Network Engineer (under training) (*August 2005 – Jan 2006)*

at SabaFon Mobile company, Yemen.
Major Tasks: 1- Performed the technical support and troubleshooting services for software and hardware (computers, printers, scanners, and other peripherals).
2- Assisted in administering the ICT infrastructure (switches, routers, & servers)

Self-employed (Own Work) *Oct 2006 – Present.*

Major Tasks: 1- Analysis, programming, and developing computer and IT systems.
  ► Accountant, Pharmacy, & Stores systems ► Networking systems
2- Designing and Installing LANs, WANs, and database system
3- Do maintenance for programs, networks, servers, and computers.

LANGUAGES

Language	Reading	Writing	Speaking
Arabic	Native	Native	Native
English	Excellent	Excellent	Very Good

- *I Passed the TOEFL Internet Based Test (IBT) in 2009.*

🖥️ COMPUTER AND TECHNICAL SKILLS

Programming Languages

- C++, C#, MATLAB, Python, Java, PHP, SQL, HTML, XML, CSS, Assembly, and VHDL.

Operating Systems and Networking

- MS Windows (XP, NT, 7, 8, 10) ; Linux (Fedora, RedHat, and Ubuntu), Unix, Apple MAC.
- Microsoft Hyper-V and VMware virtualization platforms.
- ASP.Net, TCP/IP Protocols, Microsoft and Cisco routers and switches, LAN and WAN Admin.
- Network Simulators: NS2, QualaNet, OMNeT++, MiniNet, NI USRP hardware with LabVIEW

Database Administration

- Microsoft SQL Server (2008, 2012 R2, and 2014). Microsoft Access
- Oracle SQL 7/7.2,9i,11i,12i DBA

Word Processing

- Microsoft Office (Word, PowerPoint, Excel, Outlook, Project, Publisher, Visio).
- LATEX, EndNote, and Mendeley.

Data Analysis and Visualization

- SPSS, Microsoft Power BI, Tableau, Gephi, 3D.js, Adobe Illustrator.

Security Systems

- Cisco and Juniper firewalls, Snort firewall, Citrix Secure Gateway
- Veritas/Symantec Backup Exec; ArcServe Backup.

Other Programs

- Google Maps, QGIS, ArcGIS, SAP ERP, Dreamweb CC, AutoCAD, Adobe Photoshop.

👥 TRAINING AND CERTIFICATION

Data science with Python, UPM, Malaysia, March 2019.

Project Management Professional (PMP), University of Malaya and TAL, Malaysia, Jan 2019.

Advanced Data Analytics and Statistics on SPSS, UPM University, Malaysia, Oct 2018.

Data analysis and statistics using SPSS, University of Malaya, Malaysia, April 2017.

Optimization using MATLAB, UNITEN University, Malaysia, Oct 2016.

Tertiary English Program (TEP), Academic English course (4 months), UPM, Malaysia, 2009.

An advanced training course for professional lecturer skills, Thamar university, Yemen, 2007.

Cisco Networking Systems CCNA1 and CCNA2, Cisco Academy – Yemen, 2007.

Practical training (6 months) for engineering graduation in the networking department of SabaFon Mobile company, Yemen, 2005.

Programming using C# (2 months), Al-Mansi Institute, Irbid-Jordan, 2004.

SQL Oracle DBA training course (3 months), Al-Mansi Institute, Irbid-Jordan, 2004.

English language courses (8 months), Yemen American English Institute, Sana'a-Yemen, 2001.

🌐 MEMBERSHIP

◇ Member of Institution of Electrical and Electronics Engineering (IEEE).

◇ Member of International Association of Engineers (IAENG).

◇ Member of International Computer Science and Engineering Society (ICSES).

◇ Member of IEEE Computer Society and IEEE Communications Society (ComSoc)

◇ Member of IEEE Technical Committee on Computer Communications (TCCC)

◇ Member of IEEE Technical Committee on Green Communications and Computing (TCGCC)

◇ Member of IEEE Technical Committee on the Internet.

◇ Member of IEEE Vehicular Technology Society (VTS) and Committee on Connected Vehicles.

◇ Member of IEEE Internet of Things Community, SDNs Community, Smart Cities Community, Cloud Computing Community, Big Data Community, and Cybersecurity Community.

🌐 EDITORSHIP AND PROFESSIONAL SERVICES

◇ Editor of Wireless Communication Technology (WCT) Journal.

◇ Editor of ICSES Transactions on Computer Networks and Communications (ITCNC) Journal.

◇ Editor of Advances in Wireless Communications and Networks (AWCN) Journal.

◇ Editor of Wireless Communications and Mobile Information Systems Journal.

◇ Guest Editor for Journals Special Issues:
  ► 5G Radio Network Optimization for VR/AR/XR, Int. Journal of wireless comm & mobile computing.
  ► Wireless Communication and Technology, Int. Journal of Info & communication sciences (IJICS).
  ► 5G Transport Networks: A Pragmatic Design, Advances in Networks (NET) Journal.

◇ Ambassador of Bentham Science Publishers.

◇ Referee at Yemen Debates Network.

◇ Descriptor of academic curriculums and subjects for computer science & engineering programs.

◇ Consultant for designing and maintaining enterprise networks and ICT systems.

◇ Trainer of network & database skills for ICT staff in Yemeni bank for Reconstruction & Develop

◇ Reviewer for journals: (reviewed about 100 articles)
  ► IEEE Transactions on Communications (Q1)   ► IEEE Access (Q1).
  ► Transactions on Emerging Telecommunications Technologies, Wiley (Q2).
  ► Measurement, Elsevier (Q2).   ► Wireless Personal Communications (Q3)
  ► Ad Hoc & Sensor Wireless Networks Journal (Q3).   ► ETRI Journal (Q4).
  ► International Journal of Distributed Sensor Networks (Q4).
  ► Journal of King Saud University for computer and information sciences, Elsevier (Scopus)
  ► Journal of Computer Science (Scopus).

◇ Reviewer and TPC member in several international conferences:
  ► YCES-HE 2020 and 2021   ► IEEE ICSPC 2019.   ► IRICT 2018.   ► IEEE MICC 2017.

◇ Organizing Committee Member:
  ► IEEE VTS ASEAN Summer School 2019, UPM university, Malaysia.
  ► IEEE Vehicular Technology Conference (VTC2019-Spring), KL, Malaysia.
  ► IEEE International Conference on Communications (ICC 2016) KL, Malaysia.

★ AWARDS and HONORS

◇ Best Ph.D Dissertation Award from IEEE Malaysia ComSoc/VTS joint Chapter, Jan 2020

◇ Outstanding Ph.D student certificate from Vice Chancellor of UPM, Malaysia, June 2019

◇ Best Paper Award in the 3rd IEEE International Conference on Telecommunications Technologies (ISTT 2016), Kuala Lumpur - Malaysia, November 2016.

◇ A PhD scholarship from Yemen Ministry of Higher Education, 2013.

◇ A scholarship to study Master from Yemen Ministry of Higher Education, 2009.

◇ Honor board of faculty at the final year of B.Sc. degree, JUST University, Jordan, 2006.

◇ A scholarship to study abroad as an honor for the 2nd place over the whole Governate high schools from Yemeni Ministry of Higher Education and Scientific Research, 2002.

💰 RESEARCH GRANTS

◇ I received partial funding for serving as a **Co-researcher** from the following research projects:

No	Project Title	Amount	Duration	Source of Fund
1.	'ATOM' - Advancing the State of the Art of MIMO: The Key to Successful Evolution of Wireless Networks	622,170 Malaysian Ringgit	1/2/2016 – 31/1/2020	MSCA-RISE-2015, UPM University in collaboration with the European Union (EU).
2.	On the Cogitation of Primary User Reappearance in Cognitive Radio Network	88,000 Malaysian Ringgit	1/11/2015 – 30/10/2017	FRGS, Malaysian Ministry of Higher Education.

👥 Teaching Responsibilities

◇ *Courses Taught for under-graduate students: -*

- ► Computer Networks
- ► Wireless Networks
- ► Cloud Computing
- ► Database systems
- ► Satellite Communications
- ► High Speed Networks
- ► Digital Logic Design
- ► Electronic Commerce
- ► Research Methods
- ► Routing and Switching
- ► Computer and Information Security
- ► Distributed Systems and Parallel Computing
- ► Computer Architecture and Organization
- ► Optical Fiber Communications.
- ► Microwave Engineering and Communications
- ► Networks Design and Administration
- ► Mobile Communications and Networks
- ► Information Systems Analysis

◇ *Courses Taught for post-graduate master students: -*

- ► Advanced Computer Networks
- ► High Performance Networks
- ► Performance Modelling and Simulation
- ► Advanced Topics in Wireless Networks

📖 PUBLICATIONS

Published Journal Papers:

[1] Ahmed. M. Al-Samman, Tharek. Abd. Rahman, Marwan Hadri. Azmi, Tawfik Al-Hadhrami, Y. A. Al-Gumaei, Yousef Fazea, and **AbdulMajid Al-Mqdashi**. Wideband Measurements and Propagation Characteristics for 5G system at 19 GHz, 28 GHz and 38 GHz. Applied Sciences. Jan 2020; 10(1): 335. Doi:10.3390/app10010335, **IF:2.217 (Q2).**

[2] **AbdulMajid Al-Mqdashi**, Aduwati Sali, Nor kamariah Noordin, Shaiful J. Hashim, and Rosdiadee Nordin. Efficient Matrix-Based Channel Hopping Schemes for Blind Rendezvous in Distributed Cognitive Radio Networks. Sensors (Basel, Switzerland), 1424-8220, 18(12), 4360, Dec 2018. Doi:10.3390/s18124360. **IF: 3.031 (Q1).**

[3] **AbdulMajid Al-Mqdashi**, A. Sali, Nor kamariah Noordin, Shaiful Hashim, and R. Nordin. Combined Sector and Channel Hopping Schemes for Efficient Rendezvous in Directional Antenna Cognitive Radio Networks. Wireless Communications and Mobile Computing, 1530-8677, Article ID 5748067, Dec 2017, Doi: 10.1155/2017/5748067. **IF :1.899 (Q2).**

[4] **AbdulMajid Al-Mqdashi**, Aduwati Sali, Mohammad J. Abdel-Rahman, Nor kamariah Noordin, Shaiful J. Hashim, and Rosdiadee Nordin. Efficient rendezvous schemes for fast-varying cognitive radio ad hoc networks. Transactions on Emerging Telecommunications Technologies, 28 (12) Aug 2017. Doi: 10.1002/ett.3217. **IF:1.61 (Q3).**

[5] Hilary Anabi, R. Nordin, Omar Abdulghafoor, Aduwati Sali, **AbdulMajid Al-Mqdashi**, Ahmed Mohamedou. From Sensing to Predictions and Database Technique: A Review of TV White Space Information Acquisition in Cognitive Radio Network. Wireless Personal Communication 96 (4), May 2017. Doi: 10.1007/s11277-017-4487-6. **IF: 1.2 (Q4).**

Under Review and Submission:

[6] **AbdulMajid Al-Mqdashi**, Aduwati Sali, Kamal Alezabi, Fuaad Abdulrazzq, Ahmed Al-Samman, and Yousef Fazea. A Novel Fully Distributed Channel Hopping Algorithm for Oblivious Rendezvous in Heterogeneous Cognitive Multi-Radio Networks. Submitted to IEEE Transaction of Wireless Communications. **(Q1).**

[7] **AbdulMajid Al-Mqdashi**, Aduwati Sali, Kamal Alezabi, Fuaad Abdulrazzq, and Ahmed Al-Samman. An Efficient Multi-Beam Directional Neighbor Discovery for mmWave D2D Networks. Under submission process to Ad Hoc Networks, Elsevier. **(Q1).**

[8] Fuaad Abdulrazzq, **AbdulMajid Al-Mqdashi**, and Ahmed Robid. A lightweight Mechanism for Detecting and Mitigating the SYN flooding Attacks in SDNs. Submitted to International Journal of Information Security. **(Q2).**

[9] Y. A. Al-Gumaei, Ahmed M. Al-Samman, Tawfik Al-Hadhrami, **AbdulMajid Al-Mqdashi**, and Yousef Fazea. An Enhanced Non-cooperative Power Control Game in D2D Networks with variant system conditions, Under submission to IEEE Systems Journal. **IF: 4.463 (Q1).**

Refereed Conference Proceedings

[10] **AbdulMajid Al-Mqdashi**, A. Sali, NK. Noordin, Shaiful Hashim, Rosdiadee Nordin, and Mohammad J. Abdel-Rahman. An Efficient Quorum-based Rendezvous Scheme for Multi-radio Cognitive Radio Networks. Proceedings of IEEE 3rd International Symposium on Telecommunication Technologies (ISTT), Nov 2016, KL, Malaysia. (***Best paper award***).

CONFERENCES PARTICIPATION

► The 1st International Conference on Modern Trends in Information and Communication Industry, Al-Razi University, Yemen, Dec 2021.

► The 2nd Conference on E-learning Systems in Higher Education, Yemen, November 2021.

► The 1st International Conference on Intelligent Technology, System and Service for Internet of Everything (ITSS-IoE 2021), AUST University, Yemen, November 2021.

► IEEE Technical Forum: Mitigating Societal Harm in a Social Media World, USA, Sep 2021.

► The 1st International Conference on Emerging Smart Technologies and Applications (eSmarTA2021) Lebanese International University, Sana'a, Yemen, August 2021.

► The 7th World Forum on the Internet of Things (WF-IoT), USA (Virtual attendee) June 2021

► The 2nd International Conference of Sustainability and Resilience, Bahrain, November 2020.

► The 1st Conference on E-learning in Higher Education (YCES-HE), Yemen, Nov 2020

► IEEE Vehicular Technology Conference (VTC2019-Spring), KL, Malaysia, April 2019.

► The International Symposium on IoT & SDN/NFV, CYBERJAYA, July 2018.

► IEEE 13th Malaysia International Conference on Communications (MICC 2017).

► IEEE International Symposium on Telecommunications Technologies, Malaysia, 2016.

► IEEE International Conference on Communications (ICC 2016), Malaysia, May 2016.

► The International Conference on Defense and Security Technology (DSTC 2014), Malaysia.

► The IEEE Region 10 Technical Symposium (TENSYMP 2014), Malaysia.

► One Asia Forum: Youth and Social Media, KL, Malaysia, 2009.

WORKSHOPS AND SEMINARS PARTICIPATION

► A webinar on advanced Java Programming with Cisco Webex, Sep 2020

► A webinar on Fast Track Data Analytics with SQL Server 2019 Big Data Clusters, July 2020

► A workshop on Foundations of Adaptive Fog Computing & Networking, UPM, March 2019.

► Demystifying Deep Learning Seminar: A Practical Approach in MATLAB, UPM, Jan 2019.

► A Workshop on Wireless Radio Access for 5G and Beyond, UPM, Sep 2018.

► A seminar on "The Concepts of Big Data'', UPM, Sep. 2018.

► A seminar on "Cognitive Approach to Building a Safe and Smart City (IoT)", UPM, 2017.

► A workshop on Cognitive radio of 4.5G LTE-A and GNU Radio, Malaysia, Nov 2016.

► A workshop on Advancing the state of art of MIMO (ATOM project), Malaysia, June 2016.

► The Malaysia-Japan IMT-2020 (5G) Workshop, MCMC, Cyberjaya, Malaysia, April 2016.

► A Seminar on "Writing IEEE Transactions Papers & Supervising Research Students", 2015.

► A workshop on Millimeter Wave Communication for 5G, UPM, Malaysia, July 2015.

► A workshop on Towards 5G: Carrier-Grade Programmable Virtual Mobile Networks, 2015.

REFERES

◇ Prof. Dr. **Aduwati Sali.**   (Ph.D Supervisor)   aduwati@upm.edu.my
   Faculty of Engineering, University Putra Malaysia (UPM), Malaysia.

◇ Prof. Dr. **Rosdiadee Nordin.** (Ph.D Co-Supervisor)   adee@ukm.edu.my
   Faculty of Engineering, University Kebangsaan Malaysia (UKM), Malaysia.

◇ Assoc. Prof. Dr. **Fuaad Hasan Abdulrazzaq.**   fuaad.abdulrazzak@gmail.com
                                                           fuaad.abdulrazzak@tu.edu.ye

   Dean of Faculty of Computer Science, Saba University, Yemen.
   Deputy Dean of Faculty of Computer Science and IT, Thamar University, Yemen.

◇ Prof. Dr. **Shamala Subramaniam.** (M.Sc Supervisor)   shamala_ks@upm.edu.my
   Faculty of Computer Science and IT, UPM University, Malaysia.

◇ Prof. Dr. **Nor Kamariah Noordin.**   nknordin@upm.my
   Dean of Engineering Faculty, UPM University, Malaysia.

REFERENCES

◇ All references and certificates are available when requested.