

# CURRICULUM VITAE



## Biography

He obtained his Ph.D. in Computer Science in the field of Communication Technology and Networks from Universiti Putra Malaysia in Feb 2017 and obtained his MSc in Computer Science in the field of Distributed Computing in June 2009.

Currently, he is a Senior Lecturer (Assist. Prof.) in the Dept of Communication Technology and Networks, Faculty of Computer Science and IT, Universiti Putra Malaysia (UPM).

He has more than **19 years** of academic experience.

He taught many courses based on **OBE** and **ABET** standards.

He is an **IEEE Senior Member** and

He is a journal **referee** for **20 high-impact journals** from prestigious publishers; such as IEEE, Elsevier, Springer, and Wiley.

He is also an **Editor** for ARID International Journal of Science and Technology.

He has **published** number of peer-reviewed articles in high-impact journals.

He registered one **Malaysian patent** and one **international PCT patent**.

He has been awarded a **golden medal** in the Invention, Research and Innovation Exhibition (PRPI) 2016, Malaysia.

He is an active researcher in high-speed network protocols, parallel and distributed computing, cloud and fog computing, WSN, MANET, VANET, IoT, QoS, LTE, WiMAX, and mathematical modeling.

## Mohamed Alhadi Mahmoud Alrshah

### Senior Lecturer

### Assistant Professor in Computer Science

Department of Communication Technology and Network

Faculty of Computer Science and Information Technology

Universiti Putra Malaysia (UPM)

43400 UPM Serdang Selangor, Malaysia

Email: [mohamed.alrshah@upm.edu.my](mailto:mohamed.alrshah@upm.edu.my)

[mohamed.a.alrshah@ieee.org](mailto:mohamed.a.alrshah@ieee.org)

Mobile: +60-17-320 7916

Office: +60-3-9769 1714

## Academic Qualifications

### PhD in Computer Science, Communication Technology & Networks

Universiti Putra Malaysia Oct 2012 – Feb 2017

**Thesis:** Enhancements on Linux-Based Congestion Control Algorithms for High-Speed Networks

### MSc in Computer Science (Distributed Computing)

Universiti Putra Malaysia Dec 2007 – June 2009

**Thesis:** Performance Evaluation of Parallel TCP Variants and Its Impact on Throughput and Fairness in Heterogeneous Networks: Test-Bed

### BSc in Computer Science (Programming and Computer Applications)

Naser University – Libya Sep 1996 – June 2000

**Final Project Title:** One-stop Management System for the General Electricity Company of Libya

## Academic Appointments

### Faculty of Computer Science, Universiti Putra Malaysia (UPM)

**Senior Lecturer (Assis. Prof.)** Jan 2018 – to now

- Teaching undergraduate and postgraduate courses
- Supervising undergraduate and postgraduate students
- Leading funded research projects and independent research
- Curriculums preparation, evaluation and accreditation
- Engaging and interacting with industry and community

### Faculty of Information Technology, Al-Asmarya University – Libya

**Senior Lecturer** Oct 2012 – Dec 2017

- Teaching undergraduate and postgraduate courses
- Supervising undergraduate and postgraduate students
- Curriculums preparation, evaluation and accreditation

**Lecturer** July 2009 – Sep 2012

- Teaching undergraduate courses
- Supervising undergraduate students

**Lecturer Assistant** Jan 2002 – Jun 2009

- Teaching undergraduate courses (Lab tutor)

### Teaching Standards

- **OBE** Based Teaching
- **ABET** Based Teaching

### Teaching Methods and Styles

- Teacher-Centered Approach
- Student-Centered Approach
- High-Tech Approach
- Low-Tech Approach

### Teaching Responsibilities

#### Current Courses

- Distributed and Parallel Computing
- Routing & Switching (HCNA Certificate)
- Database Application Development
- Network Protocols (Based on HCNA)

#### Previous Courses

- Technical Writing using LaTeX
- Research Methods
- Computer Networks
- Simulation using C#
- ASP.NET MVC, ASP.NET Core & MVC Core
- Object-Oriented Programming using C#
- Data Structures
- Statistical Applications on Computer
- Advanced Database Design
- Database Programming using MS-SQL
- Java Programming
- C/C++ Programming
- Building Applications using Delphi
- System Analysis and Design

### Certified Trainer

- Huawei Certified Academic Instructor (**HCAI**) for HCNA R&S, Huawei, Malaysia.
- Huawei Certified Network Associate (**HCNA R&S**) Huawei, Malaysia.

### Online Learning Management Systems

- Moodle
- BigBlueButton
- Edmodo
- Google Classroom
- Microsoft Team
- Claroline
- Kahoot

### Professional Memberships

- **IEEE Senior Member**, 2013 – present
- International Association of Engineers (IAENG), **Member**, 2017 – present
- Internet Society, **Member**, 2017 – present
- ARID Platform Community, **Member, Consultant**, 2016 – present

## Department Responsibilities

- To teach graduate and post-graduate subjects of the department
- To supervise Bachelor, Master, and Ph.D. students
- To lead independent research (individual and in-teams)
- To publish in high-quality journals
- To participate in local and international conferences
- To get research funding from local and international organizations
- To engage with industry and community
- To provide professional services locally and internationally
- To serve in international technical program committees
- To serve as external examiner for overseas institutions
- To bring international recognition (MoU and MoA)

## Department Administrative Portfolio

### Network, Parallel & Distributed Computing Research Group

UPM, 2018 – present

Creating a motivating environment for students' personal development by conducting seminars and workshops.

### Research & Commercialization Group

UPM, 2018 – present

Dealing with industrial and legal parties for sponsorship and commercialization.

### Chief-of-Editors of the International Conference on Interdisciplinary Computer Science and Engineering.

Organized by his department, 2019 – present

Handling the process of manuscripts review and publication.

## Consultant Positions

### Member of the Higher Consultation Committee for ARID Platform

Dec 2016 – present

Arabic-speaking Researchers ID Platform (ARID).

### Research and Publication Consultant

Nov 2018 – present

University of Brawijaya, Indonesia.

### Software and Network Consultant

Dec 2006 – Dec 2007

The Electronic Library, Al-Asmarya University.

## Administrative Positions

### Executive Director Dec 2018 – Jan 2019

ARID 3rd International Scientific Forum (ISF 2018), Putrajaya, Malaysia.

### Executive Director Oct 2017 – Nov 2017

ARID 1st International Scientific Forum (ISF 2017), Langkawi, Malaysia.

### Member of the Municipal Council of Zliten City Aug 2011 – Aug 2012

Zliten, Libya.

### Head of Department of Electronic Library Oct 2006 – Dec 2007

Al-Asmarya University, Zliten, Libya.

## Awards

- **Huawei Certificate and Prize** of Excellent Tutor for Huawei ICT Competition 2020.
- **Trophy:** Team Leader of the 2nd Winner (UPM Team) in Huawei ICT Competition 2020, Malaysia.
- **Excellent Work:** 8th ICRCET 2020, IFERP, Singapore.
- **Badge:** Reviewer Badge and Certificate of ARID Scientific Platform Reviewer 2020.
- **Badge:** Innovative Researcher Badge and Certificate, ARID Scientific Platform 2020.
- **Badge:** Consultant for ARID Scientific Platform, ARID Scientific Platform 2020.
- **Badge:** Initiative Researcher Badge and Certificate, ARID Scientific Platform 2020.
- **Prize** of 2019 Excellent Academic Service from UPM. **(The Highest KPI)**
- **Award:** Shield of Excellence, International Islamic University Malaysia 2019.
- **Huawei Certificate and Prize** of Excellent Tutor for Huawei ICT Competition 2019.
- **Trophy:** Team Leader of the 2nd Winner (UPM Team) in Huawei ICT Competition 2019, Malaysia.
- **Golden Medal** the best presenter in ISF 2018, Putrajaya, Malaysia.
- **Award** of 2018 Excellent Academic Service from UPM. **(The Highest KPI)**
- **Golden Medal:** the best presenter in ISF 2017, Putrajaya, Malaysia.
- **Top-3 Winner** of Three Minutes Thesis Competition (3MT-2016) UPM.
- **Golden Medal** at Exhibition of Invention, Research & Innovation (PRPI-2016) UPM.
- **Ph.D. Scholarship** from Libyan Ministry of Higher Education 2012 (for 4years).

## Programming Skills

- ASP.NET Core MVC
- ASP.NET Blazor
- C# programming
- C/C++ programming
- Java web programming

## Programming Approaches

- Object-oriented programming
- Multi-threads programming
- Network programming
- Code-first approach
- Database-first approach

## Database and Database Programming

- MS-SQL
- Oracle
- MySQL
- PostgreSQL
- SQLite

## Research Project Funds

**Title:** Transmission Control Protocol for Next Generation of High-speed Networks Sep 2019 - May 2022

**Funder:** Ministry of higher education Malaysia

**Grant No:** FRGS/1/2019/ICT03/UPM/02/3

**Total Amount:** 71,700.00 RM

## Supervision and Examination

### Ph.D: Main Supervisor

- **Name:** Sarah Abdulrahman Alkaysi (2018 - now)  
**Title:** Improving Task Scheduling in Cloud Computing.
- **Name:** Omar Imhemed Alramli (2019 - now)  
**Title:** Improvements on Congestion Control algorithm for IoT over MANET

### Ph.D: Co-Supervisor

- **Name:** Syafnidar Abdul Halim (2018 - now)  
**Title:** Topology Design for Interconnection Network on Chip
- **Name:** Mohamed Alaa Fadhil (2018 - now)  
**Title:** Data Center Load Balancing in Cloud Computing Environment
- **Name:** Chong Mien May (2019 - now)  
**Title:** Prediction Algorithm for Resource Allocation in Cloud Computing
- **Name:** Faten Amin (2020 - now)  
**Title:** Task Scheduling in Fog Computing

### Ph.D: External Examiner

- **Name:** Thomas Townsend (2020)  
**University of Canberra (Australia)**  
**Title:** Analyzing the Gap between Information Technology Infrastructure and Data Center Design, and How They Impact Service Availability

### Master by Research: Co-Supervisor

- **Name:** Sorra Fatoumata (2018 - now)  
**Title:** Frame Aggregation Scheme for IEEE 802.11n WLANs  
**Status:** Thesis submitted.

### Master by Coursework: Main Supervisor

- **Name:** Aws Abdulkareem Alhasnawi (2017 - 2019)  
**Title:** The Effect of Converters Number on Blocking Probability Parameter of WSW2 Switching Fabric
- **Name:** Heng Zhen Fan (2020 - now)  
**Title:** Congestion Control for Next Generation of Mobile Wireless Networks
- **Name:** Saleh Ali Zaid (2020 - now)  
**Title:** Performance Evaluation of Linux-based Transmission Control Protocol

## Internship

- Sayid Mohamad Sayid Ismail (Company: iDEC University Putra Malaysia)
- Vernanda Anugerah Putra (Company: iDEC University Putra Malaysia)
- Nurul Syahirah Binti Azri (Company: Sunway Integrated Properties Sdn Bhd)
- Omale Mishael Ufedo (Company: ANSI Systems Sdn Bhd)

# Publications

## Conference Proceedings

- **Mohamed A Alrshah**, Mohamed Othman: Performance evaluation of parallel TCP, and its impact on bandwidth utilization and fairness in high-BDP networks based on test-bed. 2013 IEEE Malaysia International Conference on Communications (MICC), Kuala Lumpur, Malaysia; Nov 2013.
- **Mohamed A. Alrshah**, Mohamed Othman: Test-Bed Based Comparison of Single and Parallel TCP & Impact of Parallelism on Throughput & Fairness in Heterogeneous Networks. International Conference on Computer Technology & Development, Kota Kinabalu, Malaysia; Nov 2009. ICCTD'09.
- Entisar Alhadi Al Ghawail, Sadok Ben Yahia, **Mohamed A. Alrshah**: Challenges of Applying E-Learning in the Libyan Higher Education System. International Conference on Innovations in Computer Science and Engineering (ICICSE2019), Miri, Sarawak, Malaysia, JUNE 2019.
- Fatoumata Sorra, Mohamed Othman, Fakrul Hakim, **Mohamed A. Alrshah**, Monir Abdullah, Anwar Saif : Two-Level Frame Aggregation Scheme Under Unreliable Channel Conditions for IEEE 802.11 n WLANs: A Survey. 2019 First IEEE International Conference of Intelligent Computing and Engineering (ICOICE), Hadhramout University, Mukalla, Yemen, Dec 2019.

## MS.c Thesis

- Mohamed A. Alrshah: Performance Evaluation of Parallel TCP Variants and Its Impact on Throughput & Fairness in Heterogeneous Networks Based on Test-Bed.  
DOI:10.13140/2.1.3389.5360

## Ph.D Thesis

- Mohamed A. Alrshah: Novel Adaptive Linux-based TCP Congestion Control Algorithm for High-speed Networks.  
DOI:10.13140/RG.2.2.17506.53441

## Patents

- **Mohamed A Alrshah**, Mohamed Othman: A Method for Controlling Congestion in Communication System.  
**Malaysian Patent no:** PI 2017700227, Year: 06/2017
- **Mohamed A Alrshah**, Mohamed Othman: A Method for Controlling Congestion in Communication System.  
**PCT Patent no:** WO 2018/135938 A1, Year: 07/2018

## Journal Publications

- **Mohamed A. Alrshah**, Mohamed Othman, Borhanuddin Ali, Zurina Hanapi: Comparative study of High-speed Linux TCP Variants over High-BDP Networks. Journal of Network and Computer Applications 43(2014), (**ISI, Q1, IF 5.570**).
- **Mohamed A. Alrshah**, Mohamed Othman, Borhanuddin Ali, and Zurina Mohd Hanapi: Agile-SD: A Linux-based TCP congestion control algorithm for supporting high-speed and short-distance networks. Journal of Network and Computer Applications 55(2015), (**ISI, Q1, IF 5.570**).
- **Mohamed A. Alrshah**, Mohamed Othman, Borhanuddin Ali, Zurina Hanapi: Modeling the Throughput of the Linux-Based Agile-SD Transmission Control Protocol. IEEE Access 4(2017): 9724-9732, (**ISI, Q1, IF 4.098**).
- Mohammed A. Al-Maqri, **Mohamed A. Alrshah**, Mohamed Othman: Review on QoS provisioning approaches for supporting video traffic in IEEE802.11e: challenges and issues. IEEE Access 6(2018):55202-55219 (**ISI, Q1, IF 4.098**)
- H. Q. Qadori, Z. Zukarnain, **Mohamed A. Alrshah**, Z. M. Hanapi and S. Subramaniam: CMIP; Clone Mobile-agent Itinerary Planning Approach for Enhancing Event-to-Sink Throughput in Wireless Sensor Networks. IEEE Access 6(2018), (**ISI, Q1, IF 4.098**).
- **Mohamed A. Alrshah**, Mohammed A. Al-Maqri, Mohamed Othman: Elastic-TCP: Flexible Congestion Control Algorithm to Adapt For High-BDP Networks. IEEE Systems Journal 2019; (**ISI, Q1, IF 4.463**).
- Entisar Alhadi Al Ghawail, Sadok Ben Yahia, **Mohamed A. Alrshah**: Challenges of Applying E-Learning in the Libyan Higher Education System. International Journal of Advanced Trends in Computer Science and Engineering (2019 Scopus)
- R. Basheer, K. AL-Wagih, I. Al-Baltah, **Mohamed A. Alrshah**, and M. Al-Maqri: Path Mapping Approach for Network Function Virtualization Resource Allocation with Network Function Decomposition Support. Symmetry-Basel 2019; (**ISI, Q2, IF 2.645**).
- Ali Elrowayati, **Mohamed A. Alrshah**, M.F.L Abdullah, and Rohaya Latip: HEVC Watermarking Techniques for Authentication and Copyright Applications: Challenges and Opportunities. IEEE Access 8(2020), (**ISI, Q1, IF 4.098**).
- Mamman Maharazu, Zurina Mohd Hanapi and **Mohamed A. Alrshah**: Energy and Spectral Efficiency Balancing Algorithm for Energy Saving in LTE Downlinks. Symmetry-Basel 2021; (**ISI, Q2, IF 2.645**).
- M.A. FAZLINA, Rohaya Latip, **Mohamed A. Alrshah**, Hamidah Ibrahim, and Azizol Abdullah: Vigorous Replication Strategy with Triple Quorum for Optimizing the Storage and Response Time in Cloud Environments. IEEE Access (**ISI, Q1, IF 4.098**), Under Review.
- Ali Mohamed E. Ejmaa, **Mohamed A. Alrshah**, Mohammed A. Al-Maqri, Safwan M. Ghaleb, Mukhtar Ghaleb: ADAR: An Autonomous & Density-Aware Routing Algorithm for MANET. IEEE Access (**ISI, Q1, IF 4.098**), Under Review.

## Soft Skills

### Network Simulation and Virtualization

- NS2
- NS3
- OmNet++
- NetSim
- Cloudsim
- CORE
- VMware Workstation
- VMware vSphere
- GNS3
- Packet Tracer
- eNSP

### Academic and Technical Writing

- Latex
- Microsoft word

### Reference Management Tools

- Mendeley
- Zotero
- Qiqqa
- EndNote

### Graphic Design

- Adobe Photoshop
- GIMP
- Microsoft Visio
- Libre Draw

### Attended Courses and Training

- Technical Writing by Latex, UPM, 2015
- Successful Negotiation: Essential Strategies & Skills, University of Michigan, USA. 2015
- ASP.Net MVC Course, Udemy 2016
- Amazon Web Services (AWS) Concepts, Udemy 2016
- The Complete ASP.NET MVC 5 Course, Udemy 2016
- Publish an Android App on Google Play Store, Udemy 2016
- Linux Alternatives to Windows Applications, Udemy 2017
- Thesis Writing & Scientific Journal Publication, Filspay Academy, 2017
- IEEE Authorship Workshop, UPM, 2018
- HCNA R&S, Huawei, Malaysia. 2018
- HCAI, Huawei, Malaysia. 2018
- Get Started with GitHub, Udemy 2018
- Brain Dominance Training, 3<sup>rd</sup> ISF 2018
- Scientific Branding of Scientists, Experts & Researchers, 3<sup>rd</sup> ISF 2019
- IEEE Authorship Workshop: How to Successfully Publish in IEEE, UPM 2019
- Successful Writing for Potential Opportunity of Publication, UPM 2019
- Publish in Nature Journals, UPM 2019
- Coding Micro Bit Using JavaScript and Python, UPM 2019
- Master ASP.NET MVC Core, Udemy 2020

## Journals Referee & Reviewer

- **IEEE Transactions on Wireless Communications**, 2014 – now (ISI, Q1, Impact Factor 4.951), PISCATAWAY, New York, United States.
- **IEEE Wireless Communications Magazine**, 2017 - now (ISI, Q1, Impact Factor 8.972), PISCATAWAY, New York, United States.
- **IEEE Communications Magazine**, 2017 – now (ISI, Q1, Impact Factor 10.435), PISCATAWAY, New York, United States.
- **IEEE Systems Journal**, 2017 – now (ISI, Q1, Impact Factor 3.882), PISCATAWAY, New York, USA.
- **IEEE Access**, 2017 – now (ISI, Q1, Impact Factor 3.244), Piscataway, New Jersey, USA.
- **IEEE Transactions on Communications**, 2018 - now (ISI, Q1, Impact Factor 4.671), PISCATAWAY, New York, United States.
- **IEEE Transactions on Vehicular Technology**, 2018 - now (ISI, Q1, Impact Factor 4.432), PISCATAWAY, New York, United States.
- **IEEE/ACM Transactions on Networking**, 2020 - now (ISI, Q1, Impact Factor 3.315), PISCATAWAY, New York, United States.
- **IEEE Networking Letters**, 2020 – now (ISI, Q1), PISCATAWAY, New York, United States.
  
- **Telecommunication Systems, Springer**, Sep 2014 – now (ISI, Q3, Impact Factor 1.542), Dordrecht, South Holland., Netherlands.
- **Iranian Journal of Science and Technology, Transactions of Electrical Engineering, Springer**, 2018 – now (ISI, Q4, Impact Factor 0.333), Iran.
  
- **Computer Communications, Elsevier**, 2016 – now (ISI, Q1, Impact Factor 3.338), Amsterdam, North-Holland, Netherlands.
- **Journal of Network and Computer Applications, Elsevier**, 2017 – now (ISI, Q1, Impact Factor 3.5), London, England, UK.
  
- **International Journal of Engineering and Technology Innovation**, Taiwan Association of Engineering and Technology Innovation, 2016 – now (Scopus), Wenhua Rd, Huwei County, Yunlin, Taiwan.
- **China Communications, China Institute of Communications**, 2016 – now (ISI, Q4, Impact Factor 0.903), Beijing, Beijing, China.
- **IET Communications, Institute of Engineering Technology IET**, 2017 – now (ISI, Q3, Impact Factor 1.061), Hertford, England, UK.
- **Wireless Communications and Mobile Computing, Hindawi**, 2017 – now (ISI, Q2, Impact Factor 1.899), London, England, UK.
- **International Journal of Communication Systems, Wiley-Blackwell**, 2017 – now (ISI, Q3, Impact Factor 1.066), London, England, UK.
  
- **Recent Patents on Computer Science Journal, Bentham Science Publishers**, 2018 – now (Scopus), United Arab Emirates.
- **International Journal of Ad Hoc and Ubiquitous Computing, Inderscience Enterprises**, 2018 – now (Scopus), UK.

## Editorial

- **Editor of ARID international journal for science and technology** (ISSN 2662-009X), Kuala Lumpur, Malaysia (2018 - now)
- **Editor-in-Chief of ICICSE2020**: International Conference on Interdisciplinary Computer Science and Engineering, Kuching, Malaysia (2020 - now)

## Technical Program Committee (TPC) Member

- **ISF2020**: ARID 6<sup>th</sup> International Scientific Forum, Malaysia. (Online)
- **ISF2019**: ARID 5<sup>th</sup> International Scientific Forum, Putrajaya, Malaysia.
- **ISF2018**: ARID 3<sup>rd</sup> International Scientific Forum, Putrajaya, Malaysia.
- **ISF2017**: ARID 1<sup>st</sup> International Scientific Forum, Langkawi, Malaysia.
- **ICICSE2020**: International Conference on Interdisciplinary Computer Science and Engineering, Kuching, Malaysia
- **ICICSE2019**: International Conference on Interdisciplinary Computer Science and Engineering, Kuching, Malaysia
- **ICICSE2018**: International Conference on Interdisciplinary Computer Science and Engineering, Kuching, Malaysia
- **IEEE ICSC2020**: International Conference on Smart Computing and Electronic Enterprise 2020, KL, Malaysia
- **IEEE ICSC2018**: IEEE International Conference on Smart Computing and Electronic Enterprise, KL, Malaysia
- **Committee of Network's Week 2020**, Universiti Putra Malaysia.
- **Committee of Network's Week 2019**, Universiti Putra Malaysia.
- **Committee of Network's Week 2018**, Universiti Putra Malaysia.
- **icWCSN2020**: International Conference on Wireless Communication & Sensor Networks, Warsaw, Poland
- **CCCIS2020**: International Conference on Computer Communication and Information Systems, Vietnam
- **CITSM2019**: The 7<sup>th</sup> International Conference on Cyber and IT Service Management, Jakarta, Indonesia
- **FSDM2019**: The 5<sup>th</sup> International Conference on Fuzzy Systems and Data Mining, Kitakyushu City, Japan
- **ICASETEM2019**: International Conference on Applied Sciences, Engineering, Technology & Management, APU and IFERP, KL, Malaysia
- **ICCSIT2018**: The 1<sup>st</sup> International Conference on Computer Science and Information Technology, Kuala Lumpur, Malaysia
- **ICSP-AS2018**: International Conference on Intelligent Computing and Signal Processing-Autumn Session, Zhuhai, China

## Keynote Speaker / Trainer

- Mendeley Reference Management Tool, Scientific Forum for Libyan Students in Malaysia, KL, Malaysia, Nov 2015.
- Introduction to Latex – Technical Writing, Scientific Forum for Libyan Students in Malaysia, KL, Malaysia, Nov 2015.
- Concepts on Some Beneficial Research Tools, Scientific Forum for Libyan Students in Malaysia, KL, Malaysia, Nov 2015.
- Technical Collaboration, INFOCOMM Development Center (IDEC), UPM, Malaysia, Feb 2016.
- Agile-TCP: Major Enhancements on Linux-based Congestion Control Algorithm for High-speed Networks, Technical Workshop @ FSKTM UPM with TM and MIMOS Malaysia, Dec 2016.
- How to Contribute to Research: Tools and Concepts, UPM, Malaysia, Dec 2016.
- Preparation for Three Minutes Thesis (3MT) Competition, UTM, KL, Malaysia, Jan 2017.
- Building the Researcher Identity: Tools & Practices, UTM, Malaysia, May 2017.
- Writing Scientific Articles Using LaTeX, UTM, KL, Malaysia, May 2017.
- Getting Ready For Successful Viva, Libyan Academic Club, Malaysia, Aug 2017.
- Publishing in high impact journals, UTM, KL, Malaysia, Aug 2017.
- Getting Ready For Successful Viva, UTM, KL, Malaysia, Aug 2017.
- International publication standards and mechanisms, ARID 1<sup>st</sup> International Scientific Forum, Langkawi, Malaysia, Nov 2017.
- Modern trends in the concepts of scientific research and publication in scientific journals, ARID 1<sup>st</sup> International Scientific Forum, Langkawi, Malaysia, Nov 2017.
- Publishing in high impact journals, Universitas Brawijaya, Indonesia, Jan 2018.
- Getting Ready For Successful Thesis Oral Examination, Universitas Brawijaya, Malang, Indonesia, Jan 2018.
- Publishing in high impact journals, NPD, FSKTM, UPM, Malaysia, April 2018.
- Selection of Appropriate Journal for Publication, Scientific Forum for Libyan Students in Malaysia, Geomatika University, Malaysia, April 2018.
- Wireless Networks: Fundamentals and Practice, Zliten Technological Organization ZTO, Zliten, Libya. July 2018.
- Strategies for publishing scientific papers in high quality journals, Libyan Academic Club, Kajang, Malaysia, Aug 2018.
- Library Seminar on Publication in high impact journals, UPM Library, UPM, Malaysia, Nov 2018.
- Publication in high impact journals, University of Malaya, Malaysia, Nov 2018.
- Publication in high impact journals, Management and Science University, Malaysia, Dec 2018.
- International scientific publication standards and mechanisms, ARID 3<sup>rd</sup> International Scientific Forum 2018, Putrajaya, Malaysia.
- Recent trends on the concepts of scientific research & publication in scientific journals, ARID 3<sup>rd</sup> International Scientific Forum 2018, Putrajaya, Malaysia.
- Effective writing workshop for postgraduate students and academic staff to prepare and submit manuscripts for publication. Oct 2019, Faculty of Computer Science and IT, Universiti Putra Malaysia.
- Recent trends on the concepts of scientific research and publication in scientific journals, ARID 5<sup>th</sup> International Scientific Forum 2019, Putrajaya, Malaysia.
- AI for Everyone, ARID 5<sup>th</sup> International Scientific Forum 2019, Putrajaya, Malaysia.
- Basics of Scientific Research for Academic Staff & Post-Graduate Students, Scientific Forum for Libyan Students in Malaysia, Malaysia, May 2020.
- Reference Management Using Mendeley, Scientific Forum for Libyan Students in Malaysia, Malaysia, May 2020.
- Crafting Scientific Research Papers, Advanced Scientific Research Week, ARID International Scientific Forum, Langkawi, Malaysia, July 2020.
- Academic Writing Skills Course, Universiti Putra Malaysia community engagement activities, Kuala Lumpur, Malaysia, Sep 2020.

## Digital Researcher ID

- ORCID: Open Researcher & Contributor ID: 0000-0003-2385-3287
- Scopus Author ID: 35809858100
- Clarivate Researcher ID: N-1026-2015
- ARID: Arab Researcher ID: 0001-0002
- Internet Society: 161551
- Publons: Web of Science Researcher ID: N-1026-2015
- Semantic Scholar: 0000-0003-2385-3287

## Academic Statistics

- |                    |            |
|--------------------|------------|
| • Google Scholar   | H-index 6  |
| • Researchgate     | H-index 6  |
|                    | RG = 13.22 |
| • Semantic Scholar | H-index 5  |
| • Scopus           | H-index 4  |
| • Publons          | H-index 4  |
| • Mendeley         | H-index 4  |

## Practical Programming Accomplishments

The followings are systems that I built for different sectors

### Educational/Community Sector

- Encryption/Decryption Management System.
- Intrusion Detection System (Simulator).
- Queue Management System (Simulator).
- Hardware Benchmarking System.
- Network Data/Files Exchange System.
- Timetabling Management System.
- Network Protocol Extensions for NS2 (simulator).
- Arab Researcher Identity Platform (ARID.my), more than **63K registered** members.

### Governmental Sector

- System of Distributing Medicine for Governorate of Al-Merqeb.
- Contracts Management System for GECOL.
- Consumers Accounts Management System for GECOL.
- Project Management System for GECOL.
- Factory Management System (ERP).

### Industrial for Linux Kernel

- Transmission Control Protocol (Agile-SD TCP).
- Transmission Control Protocol (Elastic-TCP).
- Transmission Control Protocol (Adaptive-TCP) (Patented).

### Private Sector

- Warehouse Management System.
- Point-of-Sale System.
- Payroll Management System.
- Debt Management System.
- Money Transfer Management System.