

Curriculum Vitae

Prof. Dr. Aymen I. Zreikat, (IEEE Senior Member (SMIEEE), IEEE Computer Society member (CSMIEEE))

Personal Information

Name: Aymen I. Zreikat.
Title: Full Professor.
Nationality: Jordanian.
Date-of-Birth: 09/01/1969.
Languages: Arabic, English, German.
Gender: Male.
Marital status: married (3 children).

Current Address

College of Information Technology, Mutah University, Jordan.
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Social Media/Academia:

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https://www.researchgate.net/profile/Aymen_Zreikat

Prof_Aymen Zreikat

Academia.edu https://aum-kw.academia.edu/AymenZreikat

https://scholar.google.com/citations?user=e1ygRRkAAAAJ&hl=en

https://www.scopus.com/authid/detail.uri?authorId=6506417283

IEEE-Membership-Information-link

https://www.peeref.com/authors/6yAP8KxON51J

https://sciprofiles.com/profile/AymenZreikat

Academic Qualifications

(1)- **Ph.D.**, School of Informatics, Computing Department, University of Bradford, UK, December 3, 2003.

Ph.D. Topic: Performance Evaluation of Wireless Mobile Networks:

(Capacity Bounds and Call Admission Control Algorithms for Wireless Mobile Networks in Different Propagation Environments).

(2)- **M.Sc.** Of Science in Computational Engineering (CE), University of Erlangen-Nürnberg, Germany, 15 August 2000. **(In English).**

Master Thesis Topic: Performance Evaluation of Non-Homogeneous Multi-Server Systems using MOSEL.

(3)- **B.Sc.** Computer Science, Yarmouk University, Jordan, 06/06/1990.

(4)- Secondary School, Jordan, 21/07/1986.

Short Biography

I obtained my B.Sc. in Computer Science from Yarmouk University, Jordan, in 1990, and my M.Sc. in Computational Engineering from the University of Erlangen, Germany, in 2000. I subsequently earned my Ph.D. from the University of Bradford, United Kingdom, in 2003. In January 2001, I joined the Performance Modelling and Engineering Research Group in the Department of Computing at the University of Bradford.

My research interests focus on performance evaluation and resource management in wireless mobile networks and beyond. I am the author of two books and numerous international journal and conference publications in this field, and I actively serve as a reviewer for several scholarly journals and conferences.

I have contributed extensively to academic and professional service through participation in national and international committees, including IEEE Senior Membership and membership in the IEEE

Computer Society. I served on the Coordinating Committee for the Management of the Queen Rania Al-Abdullah Centre for Educational Technology, Jordan (2009), and as a member and chairperson of the Higher Education Accreditation Commission committees in Jordan on fourteen occasions between 2009 and 2015. I have also been a member of student development and progress committees, as well as ABET curriculum and assessment committees within the Telecommunication and Networking Technology Department at the American University of the Middle East.

Additionally, I am a member of the MOSEL research group and have served on the editorial board of the International Journal of Software Engineering and Its Applications (IJSEIA), Korea, since 2012. Academically, I was appointed Assistant Professor in the Department of Information Technology, College of Sciences, at Mutah University, Jordan, on 16 March 2004. I was promoted to Associate Professor in 2009 and to Full Professor in 2014 at the same institution. I held several administrative leadership roles at Mutah University, including Assistant Dean of the College of Sciences (2008–2010), Chairman of the Information Technology Department (2010–2011), Faculty of Science Coordinator on the Military Campus (2014), and Vice/Acting Dean of the Faculty of Science (2014–2015). I have been serving as a Full Professor position in the College of Engineering and Technology at the American University of the Middle East, Kuwait (2015-2026).

Administrative Work & Current Position (1/9/2008-present):

- Full Professor, Mutah University, Jordan from 1/9/2026-current.
- Full Professor, American University of the Middle East, Kuwait from 1/9/2015-1/8/2026.
- Vice Dean at the Faculty of Science, Mutah University from 1/9/2014-1/9/2015.
- Acting Dean at the Faculty of Science, Mutah University, several times.
- Faculty of Science coordinator at the military wing, Mutah University from 15/4/2014-1/9/2014.
- Chairperson of IT at Mutah University from 1/9/2010-1/9/2011.
- Assistant Dean at the Faculty of Science from 1/9/2008-1/9/2010, Mutah University, Jordan.

Membership of professional bodies

- **Externally (Internationally):**

  - Member of the peer reviewing committee board of MDPI (Computers, Applied Sciences, Big Data and Cognitive Computing, Agronomy – MDPI, Diagnostics, Biology, Sensors, Telecommunication, etc.) Journals from 25/10/2024.

- Member of peer reviewing committee of Royal police academy, Journal of security studies from May 2025.
- IEEE Senior member.
- IEEE Computer Society member.
- Member of IEEE centre for leadership excellence.
- Member of the Editorial Advisory Board for the book titled "Powering the Internet of Things With 5G Networks" to be published by IGI Global (https://www.igi-global.com/book/powering-internet-things-networks/178727) , July 2017.
- Member of the editorial board of the International Journal of software engineering and its applications (IJSEIA), Canada, 2012: http://sersc.org/journal/index.php/ijseia/about/editorialTeam
- Member of the postgraduate forum at Bradford University, UK, 2003.
- Member of MOSEL research group in the operating system Department at the University of Erlangen, Germany: URL: http://www4.informatik.uni-erlangen.de/Projects/MOSEL/
- Member of the "Open Day" program at Bradford University, UK, 2000-2003.
- Member of the evaluation committees for Jordanian and international magazines.

▪ **Internally (Nationally (Jordan/Kuwait):**

- Students Development and Progress committee, American University of the Middle East, Kuwait, from Sep. 2019-present.
- Member of ABET Curriculum Committee, American University of the Middle East, Kuwait, 2015-2019.
- Member of ABET Assessment Committee, American University of the Middle East, Kuwait, 2017.
- Member and Chairman of a Committee for Higher Education Accreditation Commission, Jordan, 14 times (2009-2015).
- Member of the reviewer's committee of projects support at the Ministry of higher education, Scientific Research Support Fund (SRSF), Jordan, 2013.
- Member of the editorial board of Mutah Journal for research and studies (natural and applied science series) Jordan from 20/9/2012.
- Member of the Coordinating Committee for the management of Queen Rania Al-Abdullah centre for Educational Technology, Jordan, April 2009.
- Member of the Faculty of Science Council (i.e. Executive Board), Jordan, many times (2007- 2015).
- Member of the consultation Council of Karak Governorate, Karak, Jordan.
- Member and head of the student union elections committee in Mutah University, Jordan for many times.

- Member of the organizing committee of the first scientific week of the faculty of science, Mutah University, Jordan, 4/5-7/5, 2008.
- Member of the corresponding committee for the appointment of computer science teacher at the ideal school, Mutah University, Jordan, 2008.
- Member of the committees corresponding to emission for postgraduate studies, Jordan.
- Member of the corresponding committees for the appointment of members of the faculty in the Department of Information Technology, Jordan.
- Head of the Technical Committee of the Central Tenders at Mutah University, Jordan, 2005.
- The final year project committee, IT Department, for both civil and military wings, Jordan.
- Member of the Committee for discussion of Master Thesis at the University of Jordan in December 2004.
- Member of the Disciplinary Committee for Students, Faculty of Science, Mutah University, Jordan.
- Member of the supervisory committees of Abdel Hamid Shoman Prize for secondary schools, Jordan in 2006.

Employment Experience (1990 -present)

- Full Professor, American University of the Middle East, Kuwait, from 1/9/2015-1/8/2026.
- Full Professor, Faculty of Information Technology, Mutah University, Jordan, from 16/3/2014-1/9/2015).
- Associate Professor, Department of Information Technology, Mutah University, Jordan, 16/3/2009-16/3/2014.
- Assistant Professor, Department of Information Technology, Mutah University, Jordan, 16/3/2004-16/3/2009.
- I have jointed the computing Department, Bradford University, UK in Jan. 2001 as a Ph.D. student where I was working as TA and assisting the professors in teaching different courses: Java programming, HTML, Simulation Techniques, Communication skills…etc., for graduate and postgraduate students at different levels (2001-2003).
- During the study of my master's in Germany, I was working at the Operating system (O.S) Department at Erlangen University: preparing exercises to the students, TA (Teaching Assistant), (1998-2000).
- I worked at Siemens AG, Erlangen, Germany as a Software maintenance after I finished the master's degree, from (1st August-26th October 2000).
- After Military Service, I was officially working at Mutah University, Jordan, Department of Information Technology as Teaching Assistance (TA). From (22/5/1993-1/1998).

- I have been working during the Military Service (2 years) at Mutah University, Jordan, Department of Information Technology as Teaching Assistant (TA), (1990-1992).
- (25/04/1992-7/5/1993): programmer at the General Contracting Company, Amman, Jordan.

Training Courses given to me:

- Training course for the Academic Staff at the Department of Information Technology, at Mutah University given by Microsoft in VB.NET, in 2008.
- Computer license course (ICDL), given by the Academic Staff of Development and Quality Assurance Centre, Mutah University, Jordan from 09/10/2005-03/01/2006.
- Training course for new Academic Staff at Mutah University given by Academic Staff of Development and Quality Assurance Centre, at Mutah University, from 27/04/2004-18/05/2004.
- E-learning Training course for the Academic Staff at Mutah University given by Academic Staff Development and Quality Assurance Centre, at Mutah University, from 27/04/2004-18/05/2004.
- A training course in UNIX operating systems applications given by GBM Company from 25/04/1995-03/05/1995.
- An Introduction to UNIX operating systems at the University of Jordan from 25/06/1994-04/07/1994.

International Training Courses given by me:

-Modelling and Simulation of UMTS Networks. Held on 15-19 December 2003 in Telekom Research and Development Sdn Bhd in Malaysia.

Research Interests:

- Mobile Computing.
- Performance Evaluation and QoS resource management of Wireless Mobile Networks.
- Modelling and Simulation of cellular wireless Networks.
- AI/Internet of Things (IoT) applications.

Research Students, Supervision and Promotion Evaluation:

1. External Supervisor to Ph.D. student: “Ismat Al-Dmour" who has been awarded the Ph.D. from Glamorgan University, UK, 3 September 2008.

   Title: “On the Capacity Modelling in 3G Mobile Wireless Communications Systems and Beyond.”

2. Abdul Hameed Shoman Foundation Award for teachers of science in Jordan Elementary and Secondary Schools in 2006: under my supervision, the prize has been given that year to Mr. Maher Farah Haddadin for his participation entitled: "Using the computer to do the experiments in the physics lab instead of the traditional way".

3. I was supervising a group of graduate and undergraduate students who are working at final year projects, Mutah University, Jordan, from 2004-2015.

4. Supervision of Postgraduate programs, Faculty of Information Technology, Mutah University, Jordan, from 2004-2015.

5. I was evaluating many applications in different countries for promotion to assistant, associate and full professor ranks. Below are the recent examples:

-Evaluating promotion application to Full Professor, University of Babylon, Iraq, in May 2024.

-Recent one: Evaluating promotion application to associate Professor, Palestine technical University, Palestine, January 2026.

External Examiner:

1. Amman Arab University, Master Thesis: "Diseased Iris Recognition Technique Based on Image Enhancement". Anas Al-Hourani, December 2011. (Head of Examination Committee)
2. University of Jordan, Master Thesis: "Routing of Ad Hoc Networking", Inas Tarawneh December 2004. (External examiner).

Achieved national and International Grants

1. Ministry of Higher Education and Scientific Research (Scientific Research Support Fund, SRSF) grant, Jordan, October 2009. The research proposal is entitled: "QoS-Sensitive Resource Management in Wireless Mobile Networks". (http://www.srf.gov.jo), 2009. Project No.: (ج ت 3/4/2008).
2. British Council Grant: May, 25th – June 30th /2007. In the field of performance evaluation of broadband wireless networks. (www.getconnectedukjordan.com), 2007.
3. DFG grant for three months: from (1st June/2005-1st August/2005). Grant number: 446 JOR-J 12/11/2005. It was in the field of performance modelling of computer and communication systems, Erlangen University, Germany, 2005.
4. DFG grant for one month: from (1st June/2006-30th June/2006). Grant number: 446 JOR-J 12/11/2005. It was in the field of performance modelling of computer and communication systems as a completion of the work that has been done in the previous visit, PASSAU University, Germany, 2006.
5. EPSRC (Engineering & Physical Sciences Research Council (UK)): Grant No. GR/R85471/02:2004. The research topic: Comparative Capacity/Coverage Analysis of CDMA Cell in Different Propagation Environments. http://gow.epsrc.ac.uk/NGBOViewGrant.aspx?GrantRef=GR/R85471/02
6. Partially supported Research by German Hungarian Bilateral Intergovernmental Scientific Cooperation, Performance Modelling of Non-homogeneous Unreliable Multi-Server Systems using MOSEL. OMFB-

DLR No. HUN97/015, OMFKFP grant 0004/99 and Hungarian Scientific Research Fund OTKA-T30685/99, 1999.

Site: http://www4.cs.fau.de/~bolch/Veroeffentlichungen/Treports.html.

Activities and Participation in Conferences and Workshops

- Participating in a webinar "Engineering Literature Discovery and Review Using Engineering Village", organized by American University of the Middle East, given by Elsevier, Wednesday 24 June 2026.
- Participating in a training course entitled: "LeapSpace AI, ScienceDirect new platform", organized by American University of the Middle East, given by Elsevier, Wednesday 24 June 2026.
- Participating in a webinar "Verification code for Inside an LLM Agent: A From-Scratch Walkthrough", given by ACM learning center, Thursday 04 June 2026.
- Participating in a training course entitled: "Web of Science training session", organized by American University of the Middle East, 11 Feb. 2026.
- Participating in a training course entitled: "Google AI in higher education" given by "Google for education", 26 Jan. 2026.
- Participating in 2025 IEEE International Conference on Emerging Trends in Engineering and Computing (ETECOM), University of Bahrain, Bahrain, 29-30 October 2025.
- Participating in a webinar "EEE Xplore Webinar: Search Strategies to Supercharge Your Research Experience", given by Clarivate, Thursday 20 March 2025.
- Participating in a webinar "EEE Xplore Webinar: Search Strategies to Supercharge Your Research Experience", given by IEEE, Wednesday 5 March 2025.
- Participating in a webinar "AI and academic excellence: ethical considerations and best practices", given by Sage Research Methods Community, Tuesday 4 March 2025.
- Participating in a webinar "Student Evaluations Demystified: Turn Feedback into Success While Staying True to Your Teaching Style", given by Harvard business publishing education, Wednesday 29 Jan. 2025.
- Participating in a webinar "Exploring AI Emerging topics & potential hypothesis", arranged by American University of the Middle. Given by Elsevier, Wednesday 18 Dec. 2024.
- Participating in a webinar "Empowering Research: Navigating Springer Nature, Open Access Benefits, and Safe Publishing Practices", arranged by American University of the Middle. Given by Springer nature, Wednesday 11 Dec. 2024.
- Participating in a webinar "How gen AI can support the research workflow and identify emerging trends By Scopus AI, arranged by American University of the Middle East, Thursday 21 Nov. 2024.
- Participating in a webinar "Harnessing Gen AI in the Undergraduate Classroom". Given by Harvard Business Publishing, 29 Oct. 2024

- Participating in a webinar “Using AI for Plagiarism Prevention and AI-Content Detection in Academic Writing” Webinar for American University of the Middle East (Kuwait), given by Enago Academy, 9 October 2024.
- Participating in a webinar “How to present research to a wider audience for greater impact” given by Times Higher Education on 27 Sep. 2024.
- Participating in a webinar “Scopus AI training session” given by Elsevier on Wednesday 17 July, 2024.
- Participating in a webinar "From ML Engineering to AI Engineering", given by ACM learning, 27 June 2024.
- Participating in a webinar “An AI-Powered Interactive Learning Experience”, organized by AUM, 26 June 2024
- Participating in a webinar “Innovating Education: AI-powered Study Tool from Pearson Showcase” given by Pearson, 23 May 2024.
- Participating in a webinar “Responsible, academic AI for Web of Science researchers”, given by Clarivate, 22 May 2024.
- Participating in a webinar “Scopus Content Selection Webinar for Arabic Region Editors” given by Clarivate, 22 May 2024.
- Participating in a webinar “GoToWebinar - How to publish in open access journals? AUM (OA0101MEN)” given by “Emerald Publishing” and arranged by American University of the Middle East, AUM. Apr. 21, 2024.
- Participating in a webinar “What’s Working in the B-School Global Media Landscape? Successful Strategies for Communications Directors & How to Stand Out!” given by “Times Higher Education and Poets & Quants”, Apr. 15, 2024.
- Participating in a webinar “GoToWebinar-Becoming an international reviewer AUM (NP0105MEN)” given by “Emerald Publishing” and arranged by American University of the Middle East, AUM. Apr. 15, 2024.
- Participating in a webinar “Publication ethics and increasing your citations AUM (NP0101MEN)” given by “Emerald Publishing” and arranged by American University of the Middle East, AUM. Apr. 7, 2024.
- Participating in “AUM International Summit on Artificial Intelligence”, arranged by American University of the Middle East, Monday, March 4th, 2024.
- Participating in the following training sessions arranged by American University of the Middle East, on Tuesday 5 March 2024. Scopus AI training session, Multi and Interdisciplinary research and Gaining reputation and visibility through network expansion.

- Participating in a “Faculty Panel Discussion on Clean Energy” arranged by American University of the Middle East, Kuwait on 30 Jan. 2024.
- Participating in a webinar: “Transforming research: An in-depth exploration of Scopus AI”, given by Elsevier, on 29 Jan. 2024.
- Participating in a webinar: Developing Collaborations that Drive Innovation, online webinar, 19 September 2023, given by Clarivate.
- Participating in IEEE Authorship and Open Access Symposium: Tips and Best Practices to Get Published from IEEE Editors, online, 20 September 2023, given by IEEE Explore team.
- Participating in a webinar: Large Language Models and the End of Programming, online webinar, 9 May 2023, given by ACM learning centre.
- Participating in IEEE Authorship and Open Access Symposium: Tips and Best Practices to Get Published from IEEE Editors, 4 May 2023, online Symposium given by IEEE.
- Participating in IEEE 13th Annual Computing and Communication Workshop and Conference (CCWC2023), Virtual Conference, USA, 8- 11 March 2023.
- Participating in the webinar: Automatic Image Clustering with Multilevel Quantum Systems, given by IEEE computer society, 08 February 2023.
- Participating in the webinar: “7 Skills to Stay Competitive & Relevant in 2023”, given by IEEE computer society, 26 January 2023.
- Participating in the webinar: “Mainframe Modernization: Automation Makes it Possible” given by IEEE computer society, 19 January 2023.
- Participating in the “Choosing the Right Journal for Engineering, Computing & Technology Research” webinar given by Taylor & Francis Group on Tuesday 28 June 2022.
- Participating in “Being a more efficient & global researcher with Mendeley” webinar given by Elsevier on Monday 21 February 2022.
- Participating in the “Brief comparison and explanation of all the research indices” webinar given by Elsevier on Tuesday 15 February 2022.
- Participating in the “Uniqueness of Science Direct Platform & New Pilot Release” webinar given by Elsevier on Monday 15 February 2022.
- Participation in 2022 IEEE 12th Annual Computing and Communication Workshop and Conference (CCWC), USA, 26- 29 Jan. 2022, USA.
- Participation in “Increasing the visibility and impact of your research”, given by Taylor and Francis Group, Dec. 16, 2021. (Certificate of participation and attendance is available).

- Participation in the online workshop of Abu Dhabi University EDU 2030 – Use of technology in Hybrid education professional development, held from 17 to 24 October 2021. (Certificate of participation and attendance is available).
- Participation in online IEEE Explore webinar:" Search strategies to maximize your research experience", held on October 20, 2021. (Certificate of participation and attendance is available).
- Participation in online IEEE Explore webinar: "How to publish open access with IEEE to increase the exposure and impact of your research", held on September 29, 2021. (Certificate of participation and attendance is available).
- Participation in an online webinar discussing:" IoT for smart buildings and the future of work" given by GlobalDWS company, held on 6/7/2021. (Certificate of participation and attendance is available).
- Participation in Virtual Novel Webinar, researcher academy, on 02/06/2021. (Certificate of participation and attendance is available).
- Participation in "Inspiring Innovation in IEEE Explore" training webinar, May 26, 2021. (Certificate of participation and attendance is available).
- Participation in the "MATLAB" training webinar given by MathWorks, June 23, 2021. (Certificate of participation and attendance is available).
- Participation in "Excellence in Peer review: how to become an effective peer reviewer", given by Taylor and Francis Group, June 23, 2021. (Certificate of participation and attendance is available).
- Participation in "Increasing your research impact", given by Taylor and Francis Group, June 29, 2021. (Certificate of participation and attendance is available).
- Participation in Training workshop in "Strategies for Searching IEEE Explore", Virtual Workshop, 06 October 2020. (Certificate of participation and attendance is available).
- Participation in Researcher Academy Scopus workshop, Virtual Workshop, 28 April 2021. (Scopus For AUM - 2 | Elsevier Researcher Academy). (Certificate of Attendance is available)
- Participation in IEEE World AI IoT Congress 2021, 10-13 May, 2021, Seattle, USA, Virtual Conference. (Certificate of participation and attendance is available).
- Participation in 2021 IEEE 11th Annual Computing and Communication Workshop and Conference (CCWC), 27- 30 Jan. 2021, virtual conference, USA.
- Participation in 2020 PMU International Conference on Industrial Revolution 4.0 in Computing, Mobility, and Manufacturing (CMM 2020), virtual conference, 08-10 December 2020, Khobar, Saudi Arabia.
- Participation in 19th International Conference on Next Generation Wired/Wireless Advanced Networks and Systems, Springer Publisher, 26-28 August 2019, St. Petersburg, Russia.

- Participation in 10th IEEE-GCC conference and exhibition, 19th-23th, April 2019, Regency Hotel, Kuwait.
- Participation in the International Conference on Vehicular Mobile and Wearable Technology (VMW'17) as a part of the 3rd World Congress on Electrical Engineering and Computer Systems and Science (EECSS'17), Rome, Italy, 4-6, June 2017.
- Participation in the 29th European Conference on Modelling and Simulation, ECMS 2015, Technical University of Sofia, Albena (Varna), Bulgaria, May 26th-29th, 2015.
- Participation in the 26th annual conference of the European Council for Modelling and Simulation, held at the Koblenz Campus of Koblenz-Landau University, Germany, from May 29 to June 1, 2012.
- Participation in IMCL conference, Princess Sumaya University, Amman, Jordan, 16-18 April, 2008.
- Participation in the JUNet-Microsoft Academic Innovation Day, Grand Hyatt Hotel, Amman, Jordan, December 17th, 2007.
- Participation in International Conference in Telecommunication, IEEE, ICT'2003 Conference, Feb. 23 - Mar. 01, Tahiti, French Polynesia.
- Participation in the Sixth United Kingdom Simulation Society Conference, Emmanuel College, Cambridge, London, UK, April 2003.
- Participation in the World Wireless Congress, San Francisco, USA, June 2002.
- Participation in the 3rd Annual Postgraduate Symposium on the Convergence of Telecommunications, Networking and Broadcasting, Liverpool, John Moore's University, UK, 17th-19th, June 2002.
- Participation in the 2nd Annual Postgraduate Symposium on the Convergence of Telecommunications, Networking, and Broadcasting, Liverpool, John Moore's University, UK, 17th-19th, pp. 201-205, June 2001.
- Participation in the European Simulation Multi-conference (ESM2001), Prague, Czech Republic, June 2001.
- Participation in ESS2000 Conference, Hamburg, Germany, September 28-30, 2000.

Up-To-Date Publications

- ***Books***

1.Zreikat A. I. (November 1, 2011): Radio Resource Management and Modelling for Wireless Mobile Networks: Enhancement of Call Admission Control Algorithms (CACAs) and Capacity Bounds in UMTS/GSM Networks, published in LAMBERT Academic Publishing, Germany, 216 pages. (ISBN-10: 3846534994, ISBN-13: 978-3846534991).

2. Zreikat A. I. (January 3, 2012): Modelling, Specification, and Evaluation of Multi-server Queuing Systems: Practical Solution using MOSEL language, Published in LAMBERT Academic Publishing, Germany, 188 pages. (ISBN-10: 3846536474, ISBN-13: 978-3846536476).

- ***Chapter in a Book***

3. Elbasi, E., Cina, E., Moustafa, N., Zreikat, A.I., Shdefat, A., Topcu, A.E. (2026). Scope of AI in Future Farming. In: Krishnankutty, R.E., Kumar, A., Soni, K.B., Ravi, A. (eds) Smart Agriculture. Springer, Singapore. https://doi.org/10.1007/978-981-95-8785-8_5.

4.Elbasi, E., Varghese, G., Alzoubi, Y.I., Topcu, A.E., Zreikat, A.I. (2026). Use of AI in Crop Health Monitoring. In: Krishnankutty, R.E., Kumar, A., Soni, K.B., Ravi, A. (eds) Smart Agriculture. Springer, Singapore. https://doi.org/10.1007/978-981-95-8785-8_3.

5.Zreikat A. I. Mercan S. (2019):" Performance Study of 5G Downlink Cell", Part of the Lecture Notes in Computer Science book series (LNCS, volume 11660), online 12 Sep. 2019, pp. 377-389.

6. Elbasi, E.; Zreikat A. I., Topcu, A.E. and Cina E. (2024):" Utilizing Artificial Intelligence and IoT Technologies for Enhanced COVID-19 Diagnosis". In a book entitled "IoT and ML for Information Management: A Smart Healthcare Perspective". Springer Book Series entitled "Studies in Computational Intelligence", 28 August 2024.

- ***Peer Reviewed Journals***
  - ***Submitted-Accepted/Under Review/Preprinted***

7.Mansoor Alghamdi, Ahmad Abadleh, Sami Mnasri, Atif Amin Baig, Bassam A.Y. Alqaralleh; Charbel Aoun; Aymen I. Zreikat. Future conditioned Fault information governs classical information requirements in Fault-Tolerant Quantum computation. Submitted to Research journal, 1st October 2026.

8.Ahmad Abadleh, Mansoor Alghamdi, Sami Mnasri, Atif Amin Baig, Bassam A.Y. Alqaralleh; Charbel Aoun; Aymen I. Zreikat. Artificial Intelligence for Zoonotic Spillover Risk Prediction: A Systematic and Critical Review. Submitted to Diagnostics/MDPI, 28 August 2026.

9.Aymen I. Zreikat, Julien El-Amine (2026). Coexistence of 5G-NR High band/Mid-band/Low-band Technologies with Performance Evaluation, Information, MDPI, (preprints.org: https://www.preprints.org/frontend/manuscript/1099bdecef2c51625bbd541f2531fbb9/download_pub) 25, Feb. 2026.

- ***Published***

10. Alsawalqah, H., Abadleh, A., Ibrahim, S., Alqaralleh, B. A. Y., Aoun, C., & Zreikat, A. I. (2026). Evidence-Aware Human-in-the-Loop LLM Review for Requirements-to-Planning Decisions. Computers/MDPI, 15(9), 608. https://doi.org/10.3390/computers15090608.

11. Nabilah Afrin; Masud An-Nur Islam Fahim; Wasan Alamro; Yazan M. Allawi; Ahmad Abadleh; Salman Md Sultan; Ersin Elbasi; Aymen I. Zreikat (2026). MedSpectralNet: A lightweight convolutional neural network architecture for multi-modal image classification. PLOS ONE 21(4): e0346128. https://doi.org/10.1371/journal.pone.0346128.

12. Hammad, M., Almahmood, M., Hammad, M., Alqaralleh, B. A. Y., & Zreikat, A. I. (2026). Evaluating Machine Learning Classifiers in Detecting Cyberattacks. *Computers*, *15*(4), 248. https://doi.org/10.3390/computers15040248.

13. Bassam A. Y. Alqaralleh, Malek Zakarya Alksasbeh, Atik Kulakli, Aymen I. Zreikat (2026). An Intelligent Healthcare Framework for Hepatocellular Carcinoma Diagnosis based on Aggregated Learners from Biomedical Data Utilizing Explainable Artificial Intelligence, Scientific Report, nature, Vol. 16, No. 9357, 16 Feb. 2026. DOI: https://www.doi.org/10.1038/s41598-026-39871-z

14. Seo, J.-H., Kang, H., Kang, J., & Zreikat, A. I. (2026). Dynamic Mode Decomposition-Based Clustered Pattern Projection for Reliable Alzheimer's Disease Detection from EEG. Diagnostics, 16(4), 530. https://doi.org/10.3390/diagnostics16040530

15. Mahfoodh, H., Hammad, M., Alqaralleh, B. A. Y., & Zreikat, A. I. (2026). Evaluating LLMs for Source Code Generation and Summarization Using Machine Learning Classification and Ranking. Computers, 15(2), 119. https://doi.org/10.3390/computers15020119.

16. Alaa Btoush , Ahmad Abadleh, Anas A. Alkasasbeh, Wajih Abdalah, Aymen I. Zreikat, Nour Moustafa (2026). A Lightweight Real-Time Detection and Recovery Framework for Deauthentication Attacks in WPA3-SAE Networks. International Journal of Software Engineering and Knowledge Engineering, 2026, https://doi.org/10.1142/S0218194026500105.

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- ***Technical reports***

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Awards

1. Best paper award in IEEE conference (IEEE CCWC2023), the 23 IEEE 13th Annual computing and communication workshop and conference, March 8-11, Las Vegas, USA, 2023.
2. IEEE senior membership rank (2021-current).
3. Dean's Prize for best paper in the 4th Informatics Workshop for Research Students, University of Bradford, Bradford, UK, November 2002.
Website: http://www.brad.ac.uk/admin/pr/pressreleases/2003/deans-prize.php
4. Royal grant for the completion of the bachelor's degree at Yarmouk University, 1986.
5. Mutah University scholarship for the completion of the master's degree at Erlangen University, Erlangen, Germany, 1998.
6. Ph.D. scholarship partially supported by each Mutah University and Bradford University for the completion of the Ph.D. degree at Bradford University, Bradford, UK, 2000.

Teaching and Practical work

- During the period of my Ph.D., I have been working as Teaching Assistant at the undergraduate and postgraduate levels across the school of Informatics, at the University of Bradford in UK, which comprises the Department of Computing, Cybernetics and Electronic Imaging and Media Communications. I have taught the following courses (the name of the course is followed by the abbreviation which is known to be used in most UK Universities):

  - Basic Skills (BITS)
  - Communication Skills (COSK)
  - Introduction to Programming Design and Applications (IPDA)
  - Introduction to Web Technologies (IWT)

- Software Developments (SD)
- Computer Communications and Networks (CCN)
- Network Business and Distributed Information Management (NBDIM)
- Advanced Simulation Modelling (ASM)
- Computer Systems and Performance Modelling (CSPM)
- Graphics and Image Processing (GIP)
- Mobile Networks Performance Modelling (MNPM)

Taught Courses in Mutah University and other Universities in both Bachelor and Master level.

- Technology and the Global Society.
- Managing Information Technology Projects
- Advanced Wireless Networks.
- Simulation Techniques and Modelling (B.Sc. level).
- Advanced System & Network Administration.
- Simulation Techniques, Modelling and Scientific Writing Style (M.Sc. level
- Computer Networks.
- Special Topics (2) in Computer Sciences. i.e. Generations of Mobile Networks: 1G, 2G, 3G and beyond (i.e. WiMAX Technology).
- Data Communication and Networking
- E-commerce.
- Computer Skills (1) & (2), i.e. Visual Basic Programming.
- Java programming language.
- Object-Oriented Programming and Concepts.
- Seminar for the graduation project.
- C++ programming language.
- Communication Skills.
- Academic Writing Styles techniques.
- Multimedia, Arabian Education and Training Group, Jordan University, 2011.
- Design and Development of e-business systems, Master level (MBA/ e-Business), Arabian Education and Training Group, Mutah University, 2012.
- System programming.
- UNIX Administration.

- Advanced Sys. & Network Administration.
- C Programming Language.
- Information Technology Architecture.
- I also have previous experience in teaching and working with the followings:

Operating Systems

1) Dos.
2) Windows.
3) VMS.
4) Unix/Linux

Programming Languages, Software Packages &Applications

- Object-oriented programming (C#, C++, Python, Java).
- Basic, FORTRAN, Pascal, Fox-pro, Visual Basic, and PHP programming.
- C programming, object-oriented programming: (C++, Python and JAVA).
- Simulation package MOSEL-2 (MOdelling Specification and Evaluation Language) and its applications.
- Latex and their applications.
- Other Software applications (HTML, SQL, etc).
- Microsoft Office.
- Experience in handling on-line exams/assessments.
- Learning and course Management System; Moodle.

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