



APPENDIX B

FACULTY VITAE

Computer Science Program
Faculty of Information Technology

Indexed and Organized Edition

INDEX OF ACADEMIC RANKS

Page numbers refer to this final indexed edition.

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34 faculty members | 113 original vitae pages | 4 academic-rank sections

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Radwan M. A. AL Dwairi	Professor	19
Mohamed Hashem Saeed Almourish	Professor	23
Inshad Jum'h	Professor of Physics	28
Mohammad Ali H. Eljinini	Associate Professor	35
Abdulrahman M. Shafee	Associate Professor	40
Ali Mohammad Ali Ibrahim	Associate Professor	42
Faisal Yousef Al-Zyoud	Associate Professor	47
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PROFESSORS

FACULTY VITAE

6 faculty members | Final pages 6-33

Thamer Sami AL-Rousan

Professor, Dean of the Faculty of Information Technology

EDUCATION

- Microsoft Networking Essentials, Amman, Jordan

ACADEMIC EXPERIENCE (FULL-TIME)

- Professor, Isra University, Amman, Jordan (June 2020 - Present).
- Associate Professor, Isra University, Amman, Jordan (May 2015 - 2020).
- Assistant Professor, Isra University, Amman, Jordan (September 2010 - May 2015).
- Head of Software Engineering Department, Isra University (Oct 2015 - 2016).
- Teacher Assistant, Department of Software Engineering, University Sains Malaysia (USM), Malaysia (Jan 2007 - Jan 2010).

NON-ACADEMIC EXPERIENCE (FULL TIME)

- Chief Department, Ministry of Water & Irrigation "Jordan Valley Authority", Amman, Jordan (April 1999 - May 2006).
- Computer Engineer, Happy Computer Company, Huston, Texas, USA (May.2001-April.2003).
- Computer Engineer, Computer Application & Technical Services Company, Amman, Jordan (Aug.1996- Mar.1999).

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

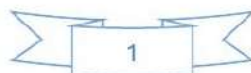
- Cisco Certified network associate (CCNA), Huston, Texas, USA
- Construction Contract: Design, Management, and Monitoring, Cairo, Egypt
- Network Management Administration and Installation, Amman, Jordan
- Network Management: Tools, Optimization, and Troubleshooting, Amman, Jordan
- Oracle Database 10g, Amman, Jordan
- Data Automation Kit, Amman, Jordan

PROFESSIONAL ORGANIZATIONS

- Institute of Postgraduate Studies (IPS), University Sains Malaysia. Fellowship for PhD study, Malaysia, (Jan 2007 - Jan 2010).
- Ministry of Higher Education, Jordan, Full Scholarship to study B.Sc. and M.Sc. degrees in Engineering Science (Technique to Enhance the Performance of Software Distributed Shared Memory Systems), The National Technical University of Ukraine, Kiev, Ukraine. Grade: Very Good.
- Ministry of Water & Irrigation "Jordan Valley Authority". Fellowship for M.Sc. study. M.Sc. in Management Information System (MIS), Amman Arab University for Graduate Studies, 2003-2005. Mixed Mode (Courses and Final Project). Thesis Title: The Role of Web Engineering in Web Application Development. Grade: Very Good.
- School of Computer Sciences, University Sains Malaysia, High Impact Publications Award, Malaysia, 2009.
- Best paper award from 16th Asia Pacific Software Engineering Conference (APSEC'09), 2009.
- Certificates of Appreciation for Community Services. University Sains Malaysia, Malaysia, 2009.
- Excellent Employee Award. Ministry of Water & Irrigation "Jordan Valley Authority", 2004.

HONORS AND AWARDS

None



PUBLICATION LIST

- [1] Nashwan, N. A., Sharab, Y., Al Rousan, T., Nashwan, A. J., & Yaghi, M. A. 2026. Football Match Outcome Prediction Using Machine Learning: A Temporal Benchmark of Six Classifiers on European League Data. IEEE Access
- [2] Al-Rousan, T. 2024. Success Factors for Conducting Software Process Improvement in Web-Based Software Projects. Journal of Cybernetics and Information Technologies.24(1).
- [3] Al-Rousan, T. 2024. E-Learning Impact on Higher Education Institutions during COVID-19 Pandemic: A Bibliometric Analysis. International Journal of Education And Information Technologies 18 (1).
- [4] Abualese, H. and Al-Rousan, T.2023. A Comparative Study Of Web Application Security Scanners For Vulnerability Detection. i-Manager's Journal on Software Engineering 17 (4).
- [5] Al-Rousan, T. 2022. New framework for Improving Random Forest Classification Accuracy. International Journal of Emerging Trends in Engineering Research.10(2).
- [6] Al-Rousan, T. 2022. A Metaverse Components, Opportunities, And Challenges. Proceedings of GSRD International Conference, Istanbul, Turkey.
- [7] Al-Rousan, T. 2020. A New Technique for Understanding Large-Scale Software Systems. TELFOR Journal.12 (1).
- [8] Al-Shargabi, B., Hassan, M., and Al-Rousan, T. 2020. A Novel Approach for the Detection of Road Speed Bumps using Accelerometer Sensor. TEM Journal. 9(2).
- [9] Al-Rousan, T., and Abu Al Ese, H. 2019. Simplifying the Structural Complexity of Software Systems. Cybernetics and Information Technologies. 19(3).
- [10] Al-Rousan, T. 2019. An Investigation of User Privacy and Data Protection on User-Side Storage. International Journal of Online and Biomedical Engineering (IJOE) .15(9).
- [11] Alzyoud, F., AL Sharman, N., Al-Roosan, T. 2019. Smart Accident Management in Jordan using Cup Carbon Simulation. European Journal of Scientific Research. 152(2).
- [12] Abu Al Ese, H., Al-Rousan, T., and Al-Shargabi, B. 2019. A New Trust Framework for E-Government in Cloud of Things. International Journal of Electronics and Telecommunications. 65(3).
- [13] Al-Rousan, T., and Abu Al Ese. 2019. Simplifying the Structural Complexity of Software Systems. Cybernetics and Information Technologies. 19(3).
- [14] Al-Rousan, T., Abu Al Ese, H., and Al-Shargabi, B. 2019. A New Security Model for Web Browser Local Storage. International Journal of Advanced Computer Science and Applications. 10(8).
- [15] Al Awaida, S., Al-Shargabi, B., and Al-Rousan, T.2019. Automated Arabic Essay Grading System Based On F-score and Arabic WordNet. Jordanian Journal of Computers and Information Technology (JJCIT).5(3).
- [16] Al-Rousan, T., Abu Al Ese, H. 2019. A New Technique for Utility-Class Detection in Object-Oriented Software. TEM Journal - Technology, Education, Management, Informatics .8 (2).
- [17] Al-Hadidi, B., and Al-Rousan, T. 2017. Utilization of Computer and Information Technology by Physicians. International Journal of Computing Academic Research (IJCAR). 6(5).
- [18] Al-Rousan, T., and Al-Shargabi, B. 2017. A New Maturity Model for the Implementation of Software Process Improvement in Web-Based Projects. Journal of Digital Information Management 15(1).
- [19] Al-Rousan, T., and Abo-Hashish, N. 2016. Resistance Factors Influencing the Adoption of Cloud Computing in the Middle East Government Sector. International Journal of Computing Academic Research.8 (1).
- [20] Al-Rousan, T. 2015. Cloud Computing for Global Software Development: Opportunities and Challenges. International Journal of Cloud Applications and Computing. IGI. U.S.A.5 (1).
- [21] Al-Rousan, T., and Abu Al Ese, H. 2015. Impact of Cloud Computing on Educational Institutions: A Case Study. Journal Recent Patents. Bentham Science Publishers. U.S.A. 8(3)

- [22] Al-Rousan, T. 2015. Prospects of Cloud Computing In E-Government. International Journal of Advanced Computational Engineering and Networking. Turkey.3 (10).
- [23] Hassan, O., Al-Rousan, T., and Abu Taleb.2014. An Efficient and Scalable Ranking Technique for Mashups Involving RSS Data Sources. Journal of Network and Computer Applications. Science Direct. U.S.A. 39(1).
- [24] Al-Rousan, T., Al-Haj, O., and Al-Zobaydi, A. 2014. The Roles of Decision Making and Empowerment in Jordanian Web-based Development Organizations. Web Engineering Journal. Rinton Press. U.S.A. 13(5&6).
- [25] Al-Zobaydi, A., and Rousan, T. 2014. Developing of Natural Language Interface to Robot - an Arabic Language Case Study. International Review on Computers and Software (IRECOS). U.K. 9(4).
- [26] Aljawarneh, S., Al-Rousan, T., and Maatuk, A., 2012. Security Issues Influencing the Usage of Online Banking in the Arab World: Data Validation. Security Journal. 27(3).
- [27] Al-Rousan, T., Sulaiman, S., and Rosalina, A. 2011. Supporting Architectural Design Decision through Risk Identification Architecture Pattern (RIAP) Model. WSEAS transactions on information science and applications. 6(4).
- [28] Al-Rousan, T., Sulaiman, S., and Rosalina, A. 2010. New Operational Risk Approach to Web Project Development. International Journal of Soft Computer. 3(6).
- [29] Al-Rousan, T., B Al-Shargabi, and F Alzyoud. 2020. An Overview of Adopting Cloud Computing in E-Learning Systems. Springer-Intelligent Computing Paradigm and Cutting-edge Technologies. ICICCT: International Conference on Information, Communication and Computing Technology, (Turkey).
- [30] Maatuk, A., Al-Rousan, T., and Aljawarneh, S. 2019. Review of Data validation techniques in Arab World: Case Study of Online Banking. The University of Benghazi. 3(1).
- [31] Al-Rousan, T. 2017. The Future of the Internet of Things. 2th International Conference on Recent Trends in Engineering and Technology), At Paris (France).
- [32] Al-Rousan, T., and Abu Al Ese, H. 2017. A Trace Simplification Framework. ICIT 2017 the 8th International Conference on Information Technology, IEEE.
- [33] Abu Al Ese, H. and Al-Rousan, T., 2017. Trustworthy Framework for the Internet of Things. ICIT 2017 the 8th International Conference on Information Technology, IEEE.
- [34] Abu Al Ese, H. and Al-Rousan, T., 2017. Class Detection Metrics. ICIT 2017 the 8th International Conference on Information Technology, IEEE.
- [35] Al-Rousan, T. 2014. Software Process Improvement for Web-Based Project. Proceedings on Computational and Experimental Science and Engineering Conference (ICCESN 2014). Antalya, Turkey.
- [36] Imam, A., and Al-Rousan, T. 2014. An Expert Code Generator using Rule-Based and Frames Knowledge Representation Techniques. Proceedings on Information and Communication Systems Conference (ICICS).Jordan. IEEE Computer Society Press. Vol.5. pp. 1-6.
- [37] Al-Rousan, T., Hadidi, B., and Aljawarneh, S. 2012. Web application development processes: requirements, demands, and challenges. ACA'12 Proceedings of the 11th international conference on Applications of Electrical and Computer Engineering, ACM Digital Library, (Greece).
- [38] Al-Rousan, T., Suleiman, S., and Rosalina, A. 2011. Project Management Using Risk Identification Architecture Pattern (RIAP) Model: A Case Study on a Web-Based Application. 6th Asia-Pacific Software Engineering Conference, IEEE Computer.
- [39] Al-Rousan, T., Suleiman, S., and Rosalina, A. 2010.WPRIMA Tool: Managing Risks in Web Projects. Proceedings of World Academy of Science: Engineering & Technology, IEEE Computer.
- [40] Al-Rousan, T., Suleiman, S., and Rosalina, A. 2010. A risk identification architecture Pattern Based on Bayesian Network. International Symposium on Information Technology, IEEE Computer.

- [41] Abu Al Ese, H., and Al-Rousan, T., 2019. The Importance of Process Improvement in Web-Based Projects. Chapter book in Information Technology as a Facilitator of Social Processes in Project Management and Collaborative Work. -IGI.
- [42] Al-Rousan, T. 2018. Software Process Improvement for Web-Based Projects Comparative View. Chapter book in Encyclopedia of Information Science and Technology08-IGI.
- [43] Al-Rousan, T. 2015.Using Cloud Computing for E-Government: A New Dawn. Chapter book in Advanced Research on Cloud Computing Design and Applications-IGI.
- [44] Al-Rousan, T. 2015. Cloud Computing for Global Software Development: Opportunities and Challenges, Chapter book in Advanced Research on Cloud Computing Design, and Applications-IGI.

PROFESSIONAL DEVELOPMENT

None

SERVICE ACTIVITIES (INTERNAL AND EXTERNAL)

None

TRAINING WORKSHOPS

- Workshop in Research Methodology, Malaysia
- Workshop in Scientific Writing, Malaysia
- Workshop in Statistics Techniques, Malaysia

Sadeq Othman Mohammad Al-Hamouz

Professor Doctor

EDUCATION

<i>Qualification</i>	<i>Specialization</i>	<i>Awarded by / Country</i>	<i>Date</i>
Ph. D.	Artificial Intelligence. Intelligent Systems	Liverpool / U. K	1987
Diplome de Docteur	Algorithms Analysis and Design	Besancon / France	1980
Diplome Des Etudes Approfondies	Parallel Processing	Besancon / France	1978
Maitrise Es-Science	Mathematics-Informatics	Besancon / France	1977
Liscence Es-Science	Mathematics-Informatics	Besancon / France	1976
Diplome D'Etudes Universitaire	Science	Besancon / France	1975

ACADEMIC EXPERIENCE (FULL-TIME)

Job Title	Place of Work	Date
Faculty	The College of Information Technology. The Department of Computer Science. Isra University (IU)	02-10-2024 to Now
Vice Dean, and Chairman of the Computer Science Department	The College of Information Technology. The Department of Computer Science. The World Islamic Sciences and Education University (WISE)	21-9-2016 to 13-9-2023
Vice Dean, and Chairman of the Department,	The Department of Computer Information Systems. Middle East University, Jordan	1-9-2013 to 31-8-2016
Faculty	Information Science. Umm Al-Qura University, KSA	10-3-2008 to 31-8- 2013
Vice Dean, and Chairman of the Com.	Computing Studies Department. Amman Arab University for Graduate Studies	1/9/2004 to 1/3/2008
Vice Dean, and Chairman of the Department	The Department of Computer Information Systems. Applied Science University, Jordan	28/9/1999 to 31/8/2004
Dean and The Center Coordinator	Al Musanah, Technical Industrial College. Sultanate of Oman.	23-09-1993 to 15- 09-1999
Chairman of the Department	Computer Science Department. Yarmouk University, Jordan	29-03-1987 To 01- 9-1993
Graduate Student and Computer Graphics Lab	Statistics and Computational Department. Liverpool University. U.K	04-10-1983 To 27- 03-1987
Assistant Professor	Computer Science Department. Yarmouk University, Jordan	15-09-1980 To 02- 10- 1983

NON-ACADEMIC EXPERIENCE (FULL TIME)

Administrative Post / Work and Committee	Date
Member of the Scientific Research Council The World Islamic Sciences and Education University	2021-2022
Member of the University Council: The World Islamic Sciences and Education University, the Middle East University, Amman Arab University for Graduate Studies, Applied Sciences University	several years
Head of the College Council, Chairman of the Department Council, Member of the College Council, Member of the Department Council	several years
Chairman of the committees: appointment and promotion, academic schedule, examinations, investigation and discipline, social	several years
Member of the Accreditation Committee for the Bachelor of Intelligent Systems	2019- 2023
Computer Expert. /Ministry of Vocational Training, Labor and Social Affairs. Sultanate of Oman	02/1999 to 09/1999

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

Training Course – Offered by / Certificate – Granted by	Date
ASP.NET MVC5 (40 Hours, New Horizon Amman Jordan)	2018
Teaching Communication Skills (Two weeks) , Applied Science University (ASU))	2000
DOT NET Technologies. Microsoft. (60 Hours, Amman Arab University).	2005
Microsoft Certified System Engineers (International CompuBase courses 2151 & 2152)	2003
Windows NT.4 (30 Hours, ICS-Jordan)	2003
MUSANA Technical Industrial College in the Sultanate of Oman. All Seminars for Quality Assurance (QA) Organized By • The Royal Society of Arts (RSA) And • The Manchester College of Arts and Technology (MANCAT). For the Training and Development of Lead Body Involved in the Establishment of Technical Educational System Named as General National Vocational Qualification.	1994-1996
Microsoft Certified System Engineers (International CompuBase courses 2151 & 2152)	
Windows NT.4 (ASU) (30 Hours), (ICS-Jordan)	
Internet (ASU) (10 Hours), (ICS-Jordan)	
Web Pages Design -HTML + FrontPage 98(ASU)-(24 Hours, ICS-Jordan)	
Oracle 7 SQL & PLSQL (ASU) (20 Hours), (ICS-Jordan)	
Oracle Administration DBA (ASU) (15 Hours, ICS-Jordan)	
Developer 2000 – Forms 4.5 & Reports 2.5 (ASU)- (20 Hours, ICS-Jordan)	

PROFESSIONAL ORGANIZATIONS

Date	Name and Place of Scientific, Academic, or Professional Body and Society
2015	1) SDIWC Member # 11215
1987 then 2000	2) IEEE Member # 87019934
1987 then 2000	3) ACM Member # 2987519
2016	4) European Scientific Institute, ESI.
2005	5) IIS-Cyper.org

HONORS AND AWARDS

Name of Award	Awarded by / Place	Date
Financial Support	Jordanian Society for Arabic Language. To support Discrete Structures Dictionary	March 2005
Financial Support	Jordanian Society for Arabic Language. To support Discrete Structures Book	March 2005
Scholarships	The British Council in Jordan paid twice for my Ph.D. registration fees at the Liverpool University	1985 and 1986
Scholarships	Yarmouk University	October 1983 To September 1986.
Scholarships	The French government within the framework of cultural exchanges with the Jordanian government "Ministry of Education",	November 1970 To October 1976
Scholarships	The French government	September 1978 to June 1980

PUBLICATION LIST

Papers Published in Referred Journals and Conferences:

1. **Implementing a Novel Communication Algorithm in Half-Duplex Communication Devices, Like LoRa.** Sadeq Al-Hamouz. International Conference on Innovation for Emerging Technologies. (ICIET2025). 15-16/1/2025. Amman, Jordan. <https://iciet.gaftim.com>.
2. **Artificial Intelligence and Deep Learning in Improving the Evaluation of Bubble Sheet Results.** International Conference on Innovation for Emerging Technologies. (ICIET2025). 15/16/1/2025. Amman, Jordan. <https://iciet.gaftim.com>.
3. **A Novel Approach to Noise Reduction in IIOT Environment Using MCU.** Sadeq Al-Hamouz. ELECTRICA 2023; 23(1): 70-78
4. **A Novel Approach to Noise Reduction in IIoT environment using MCU.** Sadeq Al-Hamouz. Electrica. Vol. 22, Issue. 2; 2022. pp. 1-8.
5. **A Power Saving Hybrid Technique for IoT.** Sadeq Al-Hamouz. Modern Applied Science. Vol. 12, No. 4; 2018. pp. 30-37.

6. **Using Orientation Sensors as a New Secure Lock Screen System for Smartphones.** Sadeq Al-Hamouz. The International Conference on Electrical and Computing Technologies and Applications (ICECTA 2022). NOVEMBER 23 – 25, 2022
7. **An ISO Compliant Safety System for Human Workers in Human-Robot Interaction Work Environment.** Sadeq Al-Hamouz, Nidhal K. El-Omari, Ali M. Al-Naimat. The 12th International Conference Developments E-Systems Engineering. Kazan, Russia. 7-10 October. 2019.
8. **An Energy Preserving Practical Security Assessment on Wireless Body Area Networks.** Sadeq Al-Hamouz; Ali M. Al-Naimat; Ahmad Fraihat. The 11th International Conference Developments E-Systems Engineering. Cambridge. U.K. 2-5 Sept. 2018.
9. **A Novel Multi-Level Security Technique Based on IRIS Image Encoding.** Sadeq Al-Hamouz. Modern Applied Science. Vol. 12, No. 4; 2018. pp. 49-56
10. **Securing Robotic Communication Using Multiple Security Techniques.** Sadeq Al-Hamouz. International Journal of Computer Applications (0975–8887) Volume 178 No.1, pp. 1-4. November 2017.
11. **Controlling a Robot in Unreachable Places with GPS and Ultrasonic Sensors.** Sadeq AlHamouz. GSTF Journal on Computing (JoC) Vol.5 No.3, pp.66-76. May 2017.
12. **Hybrid Classification Approach Using Self-Organizing Map and Back Propagation Artificial Neural Networks for Intrusion Detection.** Sadeq Al-Hamouz. The 10th International Conference developments E-Systems Engineering. Paris- France. 14th – 16th June 2017.
13. **Background Subtraction Using Coplanar Filter and Quad Tree Decomposition for Objects Counting.** Fayez Alzaghal, Sadeq AlHamouz. International Journal of Advanced Research in Computer Science and Software Engineering. Vol.6. Issue 7. pp. 88-94. July 2016.
14. **Enhanced Image Steganography System based on Discrete Wavelet Transformation and Resilient Back-Propagation.** Reyadh Naoum, Ahmed Shihab, Sadeq AlHamouz. International Journal of Computer Science and Network Security (IJCSNS), 15(1), pp.6-18. 2016.
15. **Jordanian Knowledge Stations are the Main Source to provide e-Government Services in Rural and Remote Areas.** Sadeq Al-Hamouz. E-government and smart city conference. Intended to be held at the University of the Middle East On 05/14/2016
16. **The Effect of Using the Enhanced Partially Blind Signature to Improve the Security Frame in Cloud Computing.** Sadeq Al-Hamouz. The Third International Scientific-Practical Conference “Modern Science: Problems, Prognoses and Solutions”. GEORGIA, TBILISI. September 21, 2015
17. **Performance of an Intrusion Detection System under Different Techniques.** Sadeq AlHamouz. Proceedings of the International Conference on Technology Management (ITCM2015). Turkey, Antalya. Pp (60-64), MAY 26-28, 2015
18. **The Effect of Using the Enhanced Partially Blind Signature to Improve the Security Frame in the Cloud Computing.** Sadeq Al-Hamouz. Black Sea Scientific Journal of Academic Research, TBILISI, GEORGIA. Vol 23, (05). Pp. 54-61. 2015
19. **Performance of an Intrusion Detection System under Different Techniques.** Sadeq Al-Hamouz. Journal of Communication and Computer (JCC). USA, David Publishing Company. Vol 12, (3). Pp. 168-154. 2015
20. **The Novel K-Nearest Neighbor and Back Propagation Recursive Least Squares Algorithms for Intrusion Detection Systems.** Sadeq Al-Hamouz, Reyadh Naoum, Omar Al-Sadoon. International Journal of Scientific Research (IJSR). Vol 4, (3). Pp. 168-173. 2015
21. **A novel Image Steganography System based on Hybrid Artificial Neural network with Haar-Discrete Wavelet Transform.** Reyadh Naoum, Ahmed

- Shihab, Sadeq Al-Hamouz.** Indian Journal of Applied Research (IJAR), Vol 5, (3). Pp. 118-125. **2015**
20. **The Effect of Using the Enhanced Partially Blind Signature to Improve the Security Frame in Cloud Computing.** Sadeq Al-Hamouz. The Third International Scientific-Practical Conference "Modern Science: Problems, Prognoses and Solutions.", GEORGIA, TBILISI. September 21, **2015**
 21. **Performance of an Intrusion Detection System under Different Techniques.** Sadeq AlHamouz. Proceedings of the International Conference on Technology Management (ITCM2015). Turkey, Antalya. Pp (60-64), MAY 26-28, **2015**.
 22. **Performance of Wireless Sensor Networks Using Kohonen Self Organizing Mapping Algorithm with Conscience Function.** Reyadh Naoum. Sa'ed Azzam. Sadeq Al-Hamouz. *European Journal of Scientific Research (EJSR)*, Vol. 127, NO 4. pp. 382-391. **2014**
 23. **Image Steganography Using Three Layers DCT and Artificial Neural Network.** Reyadh Naoum, Sadeq Al-Hamouz, Ahmed Shihab and Marwan Shaker. *European Journal of Scientific Research*. Vol. 121. No 3, (pages: 226-240), April **2014**.
 24. **Data and Communication Security.** International Journal of Systemics, Sadeq Al-Hamouz. *Cybernetics and Informatics.USA*.5 (1). 2007.
 25. **Fuzzy Functional Dependencies in Relational Databases.** Sadeq Al-Hamouz and Ranjit Biswas. *International Journal of Computational Cognition.USA*.4 (2). 2006.
 26. **Data and communication Security.** Sadeq Al-Hamouz. The ninth World Multi-Conference on Systemics, Cybernetics and Informatics. July 10-13, **2005** - Orlando, Florida, USA
 27. **Genetic Design of Neural PID plus Feed Forward Controllers.** Naim Ajlouni and Sadeq Al-Hamouz. *Pakistan Journal of Information and Technology*. 3(1):6-11, 2004.
 28. **Genetic Design of fuzzy Mapped PID Controllers for non-linear Plants.** Naim Ajlouni and Sadeq Al-Hamouz. *Pakistan Journal of Information and Technology*. 3(1):44-48, 2004.
 29. **The Design of Neuro Genetic Model Reference PID Controllers.** Naim Ajlouni and Sadeq Al-Hamouz. *Jordan Journals of Applied Science*. Vol.6, No.1, 2004
 30. **Genetic Design of Robust Fuzzy PID Controllers with H_{∞} Optimal Solutions through a Process of Competitive Co-Evolution.** Naim Ajlouni and Sadeq Al-Hamouz. *Jordan Journals of Applied Science*. Vol.6, No.1, 2004
 31. **Student Information System Enhancement.** Alexandre F. Ossyka, Musbah M. Aqel and Sadeq Al-Hamouz. *Jordan Journals of Applied Science*. Vol.6, No.1, 2004
 32. **Genetic design of Neural PID plus Feed Forward Controllers.** International MultiConference/ Artificial Intelligence. Las Vegas USA, 21st - 24th June **2004**.
 33. **Design of Neural Mapped PID Model Reference Controllers.** International MultiConference/ Artificial Intelligence. Las Vegas USA, 21st - 26th June 2003.
 34. **Analysis of Health Management Information: A Decision Support Tool for the Health Sector in Jordan.** Sadeq Al-Hamouz, Ghassan Al_Utaibi and Hashim Jarar. *Pakistan Journal of Information and Technology*. 2(1):35-39, 2003
 35. **Setting Up a Medical Entity – Relationship Data Model for Prescribers.** Proceeding of The Annual Conference on Computer Application in Arabic World. Cairo; Egypt. June 1992.
 36. **Computer Assisted Prescribing System.** Proceeding of The Annual Conference On Computer Application in Arabic World. Cairo; Egypt. March 1990.
 37. **GP's Response of General Practitioner to Computer Generated Prescription Warnings.** E. Edwards, M Gosney, C. Vellodi, R. C. Tallis, E. Edmond, S Al-Hamouz. *British Journal of Pharmaceutical Practice*. Pp. 232 – 234; July 1989.
 38. **Contraindicated and Interacting Drugs in Long-Stay Geriatric Patients.** E. Edwards, M Gosney, C. Vellodi, R. C. Tallis, E. Edmond, Al-Hamouz S. *British Journal of Pharmaceutical Practice*. 1989; 11: 250-254

39. **Inappropriate Prescribing in Part III residential homes.** R. C. Tallis, C. Vellodi, E. Edmond, S Al-Hamouz. Health Trends. 1989; 21: 129-131
40. **Yarmouk LifeSaver Warning Systems.** Proceeding of The 10th National Computer Conference. Jeddah; Saudi Arabia. Pp. 807 – 817; 1988
41. **Determining Drug - Drug Interactions and Related Effects on Microcomputers.** Sadeq AlHamouz, Eric Edmond. Computer and Biomedical Research. No. 20. Pp. 85-98; 1987.
42. **Contraindicated and Interacting Drugs in Long Stay Geriatric Patients.** R. C. Tallis, C. Vellodi, E. Edmond, S Al-Hamouz. British Journal of Pharmaceutical Practice. Pp. 250 – 254. July 1987
43. **Inappropriate Prescribing in the Elderly.** R. C. Tallis, C. Vellodi, E. Edmond, S Al-Hamouz. Journal of the Royal College of Physicians of London. Vol. 21. No. 1. January 1987. PP: 39-41.
44. **System Specification and Design in Clinical Microcomputer Systems: A Tutorial in Jackson System Development.** Sadeq Al-Hamouz, Eric Edmond. Journal of Microcomputer Application. No. (9): 113 – 127. 1986.
45. **The Role of Computers in the Epidemiology of Drug Interactions in Elderly Patients.** Proceeding of the CNR/EURAGE/NIH Symposium on New Trends in Aging Research. Bologna: CNR/EURAGE/NIH, 1985: 21 – 24.
46. **Prevention of Mis-Prescribing in the Elderly: A Potential Uses for Microcomputer.** E. Edmond, R. C. Tallis, S. Al-Hamouz. Proceeding of The Eight Annual Symposiums on Computer Application in Medical Care. Washington 1984: 357 – 360.

PROFESSIONAL DEVELOPMENT

None

SERVICE ACTIVITIES (INTERNAL AND EXTERNAL)

None

TRAINING WORKSHOPS

None

Hamad Hamed Abu Zaied

Full Professor

EDUCATION

PhD and M.Sc.	Faculty of Computers and Information Technology. Technical University of Moldova	July 2003
B.Sc. in Computers and information, Major Information Systems	Faculty of Technology and Engineering. Jordan University	1983

ACADEMIC EXPERIENCE (FULL-TIME)

- Associate professor, Faculty of computer science, Philadelphia University, Jordan, 2003;
- Associate Professor, Karazin International University, Ukraine, 2009;
- Full Professor, Karazin Int. University, Ukraine, 2015.

NON-ACADEMIC EXPERIENCE (FULL TIME)

None

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

Technical writing training course.

PROFESSIONAL ORGANIZATIONS

Arab IT Conference Evaluation Committee

HONORS AND AWARDS

- Al-Taif University award
- Al-Baha University award

PUBLICATION LIST

1. H. Abu Zaied, Moh'd Abu Suaileek, Triple- Locks Clipper Encryption TLCP theory, under publication, 2026, 2026;
2. H. Abu Zaied " Evaluation of Traffic Behavior in ATM Networks. Scientific Reserch Journal of Karazin National University, Volume 12, number 10, Kharkov;2010;
3. H. Abu Zaied."Image Processing based on the object instantaneous parameters". Scientific Reserch Journal of Karazin National University, Volume 12, number 3, Kharkov;2010;
4. "Genetic Inheritance of images-based algorithm for Partial Restoration of images'. Scientific Reserch Journal of Karazin National University, Volume 11, number 8, Kharkov;2009;
5. H. Abu Zaied "White Education Process for Distance Learning Monitoring: tools and resources. Computer Science Journal of Moldove, Volume 12, number 2, Kichenev; 2008;
6. H. Abu Zaied. "Fragmental Allocation in EC". Scientific Reserch Journal of Karazin National University, Volume 10, number 1, Kharkov;2008;
7. H. Abu Zaied. "A Differential Measurement (DM) of congestion level inATM network." International Journal of Computer Science and Network Security, Vol.7, No. 12, 2007;
8. H. Abu Zaied. A Generic Connection Admission Control in ATM Networks . Scientific Reserch Journal of Karazin National University, Volume 9, number 10, Kharkov;2006;

9. H. Abu Zaied. Bioinformatics-aided mathematical Approach. Scientific Reserch Journal of Karazin National University, Volume 9, number 5, Kharkov;2006;
10. H. Abu Zaied. Infinite Queue – based Connection Admission Control in ATM networks. Computer Science Journal of Moldove, Volume 10, number 11, Kichenev; 2005;
11. H. Abu Zaied. A Package of Algorithms to device cellular automato in the hyperbolic plane, Scientific Reserch Journal of Karazin National University, Volume 8, number 3, Kharkov;2005;
12. H. Abu Zaied. Copmuter Modelling of Dynamic Process, Computer Science Journal of Moldove, Volume 9, number 5, Kichenev;2004;
13. H. Abu Zaied. A Forward Dynamic Least Congested Path Routing Algorithm in ATM Networks- BIT+, II International Conference on Information Technologies, Chişinău, Moldova, 2002, p.136;
14. H. Abu Zaied. Optimum Bandwidth Allocation Algorithm in ATM Network- BIT+, II International Conference on Information Technologies, Chişinău, Moldova, 2002, p.95;
15. H. Abu Zaied, Victor Besliu and M. Al-Amaireh. Bandwidth Space Allocation Algorithm IN ATM Networks - The Proceedings of the 2002nd International Arab Conference on Information Technology (ACIT'2002), Vol.2 Qatar, 2002, p. 794-799;
16. H. Abu Zaied, Victor Besliu and A. Dalala'h. The Minimum Number of Links-Based Routing Algorithm in ATM Networks (MNL)- The Proceedings of The 2002 International Arab Conference on Information Technology (ACIT'2002), Vol. 1 Qatar, 2002;
17. H. Abu Zaied, Victor Besliu. The Minimum Number of Passes - based Routing Strategy in ATM Networks (MNP). – Proceedings of the 3rd International Conference on "Microelectronics and Computer Science", (ICMCS-02), Volume II, Chişinău, 2002;
18. H. Abu Zaied. A distributed look-around with minimum Number of hops routing algorithm in ATM networks. BIT+, I International Conference on Information Technologies, Moldova, 2001;
19. H. Abu Zaied, Victor Besliu and A. Dalala'h. A New Cost Function for integrated dynamic routing algorithm in ATM networks. The Proceedings of The 2001 International Arab Conference of Information Technology (ACIT 2001);
20. H. Abu Zaied, Victor Besliu and A. Dalala'h. Virtual link based connection Admission Control in ATM Networks (VCAC). The Proceedings of The 2001 International Arab Conference of Information Technology (ACIT 2001);
21. H. Abu Zaied, Victor Besliu, A. Dalala'h and M. S. Obaidat. Dynamic Near Shortest Path (DNSP) routing algorithm. – The Proceedings of the 2001 International Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS 2001, 2001, Orlando, Florida;
22. H. Abu Zaied, Victor Besliu A. Dalala'h. A New Call Admision Control Function for an ATM Backbone. Proc. of The 2000 Arab Conference on Information Technology, ACIT'2000.

PROFESSIONAL DEVELOPMENT

- Artificial Intelligence and Machine Learning
- Teaching and Accreditation
- Ethical Hacking and Penetration Testing
- Scientific Publishing and Research Methodology Workshop
- Academic Writing for High-Impact Journals

SERVICE ACTIVITIES (INTERNAL AND EXTERNAL)

- Member, Committee for Integrating E-Learning and Website Development.
- Faculty Evaluator for Student Research and Innovation Projects.
- Participant, University Open Days and Student Recruitment Events.
- Collaborator in research projects with Al-BAHA University KSA.

TRAINING WORKSHOPS

- Participated in IEEE Day, organized by IEEE Student Branch at Isra University.
- Attended Workshop on Drone Technologies and Applications.
- Participated in Faculty Scientific Day and presented research activities.

Radwan M. A. AL Dwairi

Professor

EDUCATION

- PhD in Computing University of Bradford UK (2010)
- BSc in Computer Science Yarmouk University Jordan (1988)
- High school (Scientific stream) Average (81.1)% Jordan 1984

ACADEMIC EXPERIENCE (FULL-TIME)

- Institute-Country Period Academic Rank Administrative Role
- Isra University- Jordan Oct 2025-Now Professor -
- Yarmouk University- Jordan July-2025- Oct 2025 Professor -
- Yarmouk University- Jordan Apr-2019- July 2025 Associate Prof Acting Head of MIS
- Yarmouk University- Jordan Sept 2016-2019 Assistant Prof. Acting Head of MIS
- Yarmouk University- Jordan Sept 2014-2016 Assistant Prof -
- Al-Albait University-Jordan Feb 2012-Sept 2014 Assistant Prof -
- Al-Musna'a Collage of Technology-Oman 2010-2012 Lecturer Head of registration Dept.
- Al-Musna'a Collage of Technology-Oman 1996 -2005 Lecturer Head of IT section

NON-ACADEMIC EXPERIENCE (FULL TIME)

- Alabait University- Jordan 1994-1996 Systems analyst and Developer
- Dept. of Passport department- Jordan 1992-1994 Systems analyst and Developer

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

- Google scholar Link : <https://scholar.google.com/citations?user=PiZu2lwAAAAJ&hl=en>
- Scopus Authour Link : <https://www.scopus.com/authid/detail.uri?authorId=35226228600>
- LinkedIn Link : <https://www.linkedin.com/in/dr-radwan-al-dwairi-0b98a617/?originalSubdomain=jo>
- ResearchGate Link : <https://www.researchgate.net/profile/Radwan-Al-Dwairi-2>

PROFESSIONAL ORGANIZATIONS

None

HONORS AND AWARDS

None

PUBLICATION LIST

International Journals

1. Ali A Zahrawi, Issa Shehabat, Radwan Al-Dwairi, Ahmad Shatat (2025); The Role of Intellectual Capital and Knowledge Sharing in Manufacturing SMEs' Innovation and Firm Performance. International Journal of Advances in Soft Computing & Its Applications. Volume 17(1)
2. Radwan M. Al-Dwairi, Maali Al-Khataybeh, Dania Najadat, Adnan Rawashdeh (2024); User self-efficacy enhances business intelligence tools for organizational agility, Indonesian Journal of Electrical Engineering and Computer Science Vol. 36, No. 1, October 2024, pp. 592~602 ISSN: 2502-4752, DOI: 10.11591/ijeecs. v36.i1.pp592-602.
3. Areen Al-Tarawneh, Eva Haddad, Radwan Mod Al-Dwairi, Saleh Yahya Al-Freijat, Ayman Mansour, Ghosoon Abdulaziz AL-Obaidly (2024). The impact of strategic and innovativeness entrepreneurship and social capital on business overall performance through building a sustainable supply chain management at Jordan Private Universities. Uncertain Supply Chain Management, Volume 12 Issue 1 pp. 65-76.

4. Radwan Moh'd Al-Dwairi , Ali Alawneh (2024). An Effective Model of Viral Marketing for e-Commerce Enterprises: An Empirical Study. High Tech and Innovation Journal. Vol. 5, No.1.
5. Radwan M. Al-Dwairi, Issa Shehabata, Ali Zahrawia and Qais Hammourib (2024), Building customer trust, loyalty, and satisfaction: The power of social media in e-commerce environments. International Journal of Data and Network Science, 8(3), 1883-1894.
6. Adnan Rawashdeh¹, Mouhammd Alkasassbeh, Radwan Al-Dwairi, Hani Abu-Salem³, Hashem Al-Mattarneh (2024); Improved search method for classified reusable components on cloud computing, Indonesian Journal of Electrical Engineering and Computer Science, 36(2), 1092- 1104.
7. Al-Dwairi, R., & Jditawi, W. (2022). The Role of Cloud Computing on the Governmental Units Performance and E-Participation (Empirical Study). International Journal of Advances in Soft Computing & Its Applications, 14(3).
8. Al-Dwairi, Radwan., & Al-Ali, Omar. (2022). The Role of Trust and Satisfaction as Mediators on Users' Continuous Intention to Use Mobile Payments: Empirical Study. Journal of Theoretical and Applied Information Technology, 100(9), 3035-3047.
9. R Moh'd Al-Dwairi, M Al Azzam (2021): Influences and Intention of Consumer's Online Shopping Decision: Jordan as a Case. International Journal of Information Systems in the Service Sector (IJISSS) 11(1), 40-53.
10. Al-Dwairi, R., Harb, Y., & Shehabat, I. (2020). The role of social platforms in establishing brand awareness for B2C e-commerce: empirical study. International Journal of Business Information Systems, 33(4), 488-504.
11. R Al-Dwairi, E Abu-Shanab, M Daradkeh (2018) : A framework for antecedents of trust in social commerce, International Journal of Enterprise Network Management 9 (3-4), 333-351.
12. Radwan Moh'd Al-Dwairi , Emad A. Abu-Shanab ,Laith M.K. Al-Shraideh (2018) :Mobile Commerce Adoption From Consumers Perspective: The Case of Jordan. International Journal of Information Systems and Social Change (IJISSC), 9(2), 12-27.
13. Daradkeh, M., Al-Dwairi, R.M.'d. (2018) : Self-Service Business Intelligence Adoption in Business Enterprises. Int. J. Enterp. Inf. Syst. 13, 65–85.
14. R Al-Dwairi (2017): Social commerce adoption among Jordanian youth: empirical study International Journal of Business Information Systems 26 (3), 277-296
15. RM Al-Dwairi (2013) : E-commerce Web sites trust factors: An empirical approach Contemporary Engineering Sciences, 6 (1), 1-7.

Conferences

16. Radwan Moh'd Al-Dwairi, Maali Al-Khataybeh (2023). Web 2.0 Tools and Service Quality: The key to effective customer relationships in e-commerce environments. 2023 International Conference on Information Technology (ICIT). 827-831. IEEE.
17. R.M. Al-Dwairi, N. Al-Tweit, K. Zyout, (March 2018) "Factors Influencing Cloud-Computing Adoption in Small and Medium E-Commerce Enterprises in Jordan", in, ACM International Conference.
18. Al-Dwairi, R. M., & Kamala, M. A. (2010, February). Business-to-consumer e-commerce Web Sites: Vulnerabilities, Threats and quality evaluation model. In Electronics, Communications and Computer (CONIELECOMP), 2010 20th International Conference on (pp. 206-211). IEEE.
19. Al-Dwairi, R. M., & Kamala, M. A. (2009, September). Determination of the Factors that Influence Consumers' Trust in Business-to-Consumers Electronic Commerce: An Empirical Approach. In CyberWorlds, 2009. CW'09. International Conference on (pp. 345-350). IEEE.
20. Al-Dwairi, R. M., & Kamala, M. A. (2009, September). An integrated trust model for business-to-consumer (b2c) e-commerce: integrating trust with the technology acceptance model. In CyberWorlds, 2009. CW'09. International Conference on (pp. 351-356). IEEE.

PROFESSIONAL DEVELOPMENT

- Throughout my academic and professional career, I have continuously invested in developing my expertise in higher education, leadership, and information technology. I participated in numerous academic preparation programs, teaching and learning methodologies workshops, educational development initiatives, and quality assurance training aimed at enhancing teaching effectiveness and supporting institutional excellence. Prior to joining academia, I gained practical industry experience by working as a software developer across multiple sectors, which strengthened my applied and industry-oriented perspective.
- In addition to my teaching responsibilities, I served as the Acting Head of the Management Information Systems (MIS) Department at Yarmouk University for three consecutive years, where I gained extensive administrative and leadership experience. During this period, I actively contributed to curriculum development and modernization efforts to align program outcomes with labor market demands and international and national educational standards, including ABET accreditation requirements. Throughout my academic journey, I have taught a wide range of undergraduate and postgraduate courses across the Information Technology domain, which has enriched my instructional, mentoring, and academic leadership capabilities.

SERVICE ACTIVITIES (INTERNAL AND EXTERNAL)

The activities as department head:

- As a HoD, one of my important activities was preparing an operational plan for the department to be consistent with the university strategic plan to achieve a set objective related to preparing the teaching load and the academic schedule for faculty members and students of the department. The plan also includes events and activities for students such as inviting leading companies in the field of information technology such as Microsoft, Oracle, Google, .etc. to present the latest technological developments in their products and services and building communication channels with students for the purposes of employment after graduation. Such interactions with the IT companies offer valuable feedback to bridge the gap between the requirements of the information technology job sector and the department teaching plans and the need to update them to keep pace with the requirements of the job market and according to some international accreditation standards such as ABET and ACM.
- Furthermore, another plan was developed to train students and encourage them to participate in local and international technology competitions to develop their creative skills in the field of programming and cyber security. Also, the plan includes some initiatives that organize workshops to exchange research ideas among faculty members to increase scientific production and encourage participation in international projects funded by international organizations such as the European Union and the USAID.

My responsibilities for my students

1. Using different types of teaching methods for students such as presentation, discussion, videos, scientific visits, and case studies.
2. Preparing up-to-date scientific material along with the use of e-learning and effective communications with students.
3. Diversifying students' assessment methods and following up their achievement of the learning outcomes specified for the courses.
4. Urging students to think creatively to solve various problems by giving them different types of problems and case studies.

My community activities

1. Providing free technological consultations to several associations, centers and companies related to ways to create, maintain and save their information, ways to protect them, and create electronic web pages for online presence and to communicate with their customers.
2. Preparing and providing workshops and training courses related to information technology applications for some centers and associations

3. Carrying out some research projects that are related to the nature of the work of public and private institutions in a constantly evolving technological environment and presenting appropriate recommendations
4. Give several awareness lectures to school students and centers towards a safe use of social media and make them aware of cybercrimes.

TRAINING WORKSHOPS

- Formative assessment as a method of learning workshop Yarmouk University July 2023
- Detecting plagiarism using Turnitin software Yarmouk University July 2023
- Advanced Statistical Analysis Course Yarmouk University July 2022
- Oracle Cloud Workshop Jordan- Amman 2021
- Community Service Workshop Yarmouk University July 2022
- Communication Skills Workshop Yarmouk University July 2022

Mohamed Hashem Saeed Almourish

Professor

EDUCATION

- Degree Field University Location Year Ph.D. Computer Engineering Vladimir State Vladimir, 2009 – Network Security University Russia using Intelligent Systems
- M.Sc. Computer Science and Peter the Great St. Saint 2004 Information Petersburg Petersburg, Technology Polytechnic Russia University
- B.Sc. Computer Science and Peter the Great St. Saint 2002 Information Petersburg Petersburg, Technology Polytechnic Russia University

ACADEMIC EXPERIENCE (FULL-TIME)

- Period Rank Department College/Institution Location 2024 – Professor Department of Faculty of Amman, Present Computer Science Information Jordan (2026) Technology, Isra University
- 2022 – 2024 Professor Faculty of Philadelphia Amman, Engineering and University Jordan Technology
- 2021 – 2022 Professor Department of Faculty of Taiz, Communications Engineering and Yemen and Computer Information Engineering Technology, Taiz University
- 2015 – 2021 Associate Department of Faculty of Taiz, Professor Communications Engineering and Yemen and Computer Information Engineering Technology, Taiz University
- 2009 – 2015 Assistant Department of Faculty of Taiz, Professor Communications Engineering and Yemen and Computer Information Engineering Technology, Taiz University
- 2005 – 2006 Teaching Department of Faculty of Taiz, Assistant Communications Engineering and Yemen (M.Sc.) and Computer Information Engineering Technology, Taiz University

NON-ACADEMIC EXPERIENCE (FULL TIME)

None

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

- Certification Issuing Body Date Issued Microsoft Certified: Azure Microsoft May 31, 2026, Fundamentals (AZ-900)
- Neural Networks and Deep Learning DeepLearning.ai – 2026 Coursera
- Structuring Machine Learning DeepLearning.ai – 2026 Projects Coursera

PROFESSIONAL ORGANIZATIONS

None

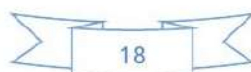
HONORS AND AWARDS

- Award Issuing Body Year Bronze Shield Award for Scientific Taiz University 2012 Excellence
- Research Fellowship IE-SRF (International 2022 – Institute) 2024

PUBLICATION LIST

Journal Papers

1. Almahaqeri, S.A., Almourish, M.H., Nasser, A.A. et al. An optimized gradient boosting framework for IoT intrusion detection: a comprehensive evaluation on the CICIoT2023 dataset. Scientific Reports (2026). <https://doi.org/10.1038/s41598-026-47399-5>.
2. Al-khulaidi, N. A., Almourish, M. H., Taleb, E. M. A., Farhan, R. A. A., Latf, M. N. M., & Abdullah, O. M. A. (2025). Improving Detection and Classification Of Brain Tumors Using



- DenseNet201. *Journal of Science and Technology*, 30(6). DOI: <https://doi.org/10.20428/jst.v30i6.2855>.
3. Nashwan Amin Al-khulaidi, Mohammed Hashem Almourish, and Abdulrhman Mohammed Ali. (2024). Detection of Covid-19 and chest pneumonia based on X-ray images using Deep-Transfer Learning. *Iraqi Journal for Computers and Informatics*, Vol. 50, No. 1, pp. 133-143. DOI: <https://doi.org/10.25195/ijci.v50i1.436.2024>.
 4. Almourish, M.H., Abduljalil, O.A.I., Alawi, A.E.B. (2022). Anomaly-Based Web Attacks Detection Using Machine Learning. In: Pattnaik, P.K., Sain, M., Al-Absi, A.A. (eds) *Proceedings of 2nd International Conference on Smart Computing and Cyber Security (SMARTCYBER 2021)*. Lecture Notes in Networks and Systems, vol 395. Springer, Singapore. https://doi.org/10.1007/978-981-16-9480-6_29.
 5. Mohammed Hashem Almourish, Nashwan Amin Al-khulaidi, Ahmed Yousef Saeed, Borhan Mohammed Radman, Abdulfattah Esmail Ba Alawi, Dalil Abdulbari Al-qershi (2021). Detection of pneumonia by using nine pre-trained transfer learning models based on deep learning techniques. *Iraqi Journal for Computers and Informatics*, Vol. 47, No. 1.
 6. Nashwan Amin Al-khulaidi, Mohammed Hashem Almourish, Mohammed Essam Ali, Abobakr Ali Ghalib, Omar Abdulaziz Alnaqeeb, Wegdan Mohammed Saeed (2021). Recognition of Brain Tumors Using Radon Transform and Gray Level Co-Occurrence Matrix Algorithm. *Al-mansour Journal, Iraq*, Issue 35, Pages 62-77.
 7. M. H. Almourish, A. A. Saif, B. M. N. Radman and A. Y. A. Saeed (2021). Covid-19 Diagnosis Based on CT Images Using Pre-Trained Models. *2021 International Conference of Technology, Science and Administration (ICTSA)*, pp. 1-5. doi: 10.1109/ICTSA52017.2021.9406553.
 8. Mogeab A. Saeed, Mohammed Hashem Almourish, Yasmeen Ali Alqady, Hanadi Alsharabi, Haleema Alkhorasani, Samah Alsorori, Ahmed Y. A. Saeed (2021). Predicting fall in elderly people using machine learning. *2021 International Congress of Advanced Technology and Engineering (ICOTEN)*, pp. 1-5. doi: 10.1109/ICOTEN52080.2021.9493442.
 9. Mohammed Hashem Almourish, Ahmed Yousef Saeed, Borhan Mohammed Radman, Hazem Abdulah Mohammed, Shakeep Fare'a Albana, Abdulfattah E. Ba Alawi (2021). Integration of object detection and face recognition in real time. *Alandalus Journal for Applied Sciences*, Vol. 13, No. 8.
 10. Mohammed Hashem Almourish, Abdulfattah Esmail Ba Alawi, Ahmed Yousof Saeed (2021). Yemeni Plants Recognition System using Deep Learning Technique. *Arab Journal of Sciences & Research Publishing*, Vol. 5, No. 2.
 11. Mohammed Hashem Almourish, Ahmed Yousof Saeed, Borhan Mohammed Radman, Abdulfattah Esmail Ba Alawi, Dalil Abdulbari Al-qershi (2021). Yemeni Rial Exchange Rate Prediction Using Predictive Models Based on Artificial Intelligent. *Saba Journal of Information Technology and Networking*, Vol. 9, No. 1.
 12. Mogeab A. Saeed, Mohammed Hashem Almourish, Aseel Najeeb Mohammed, Ashraf Qassem Al-Rashid, Mohammed Fuad Al-shehari (2021). Arabic Sign Language to text and speech translation using convolutional neural network and Pytorch. *International Journal of Engineering and Artificial Intelligence*.
 13. Mogeab A. Saeed, Mohammed Hashem Almourish, Ahmed Y. A. Saeed (2021). Hand Gesture Recognition System for Arabic letters and numbers Using Deep Learning. *Taiz University Research Journal: Arts Applied Sciences and Humanities Series*.
 14. Mohammed H. Almourish, Nishwan A. Al-khulaidi, Amin A. Mokbel, Ahmed Y. A. Saeed (2020). The Classification of the Heart Rate Variability Using Radon Transform with Back-Propagation Neural Networks. *International Journal of Innovative Science and Research Technology*, Volume 5, No. 6.
 15. Mohammed H. Almourish (2014). Image recognition using recurrent auto-associative memory neural network and fuzzy image enhancement. Vol. 18, No. 2.
 16. Mohammed H. Almourish (2014). Image Recognition using of Bidirectional Associative Memory and Fuzzy Image Enhancement. Vol. 19, No. 1.

17. Mohammed H. Almourish, Wadea Ahmed Abdo, and Siham Abdulmalik Almasani (2013). Liquid level control by using fuzzy logic controller and performance characterization. Vol. 17, No. 2.
18. Jamil A.M. Saif, Ali Abdo Mohammed Al-Kubati, Abdultawab Saif Hazaa, Mohammed Al-Moraish (2012). Image Segmentation Using Edge Detection and Thresholding. The 13th International Arab Conference on Information Technology (ACIT'2012), Dec.10-13.
19. Аль-Муриш Мохамед. Нечеткий вывод, нечеткая логика и их применение при информационной защите систем / А.П. Галкин, А.В. Дерябин, Е.Г. Суслова // Известия института инженерной физики. 2009 – №2. – С.13-15.
20. Аль-Муриш Мохамед. Анализ угроз информационной безопасности в АСУТП и основные мероприятия по их предотвращению / А.П. Галкин, А.В. Дерябин, Е.Г. Суслова // Известия института инженерной физики. 2009 – №3.
21. Аль-Муриш Мохамед. Финансовая и информационная безопасность и риски при проектировании / А.П. Галкин, Осама Тахаан, Е.Г. Суслова // Экономические проблемы ресурсного обеспечения инновационного развития региона. Матер. Conf. Vladimir, 2009.
22. Аль-Муриш Мохамед. Системы обнаружения атак и нарушений в корпоративной сети / А.П. Галкин, Тахаан Осама // Материалы 8-й Международной НТК Проектирование и технология электронных средств. 2009.
23. Аль-Муриш Мохамед. Обнаружения атак и нарушений в корпоративной сети. International Scientific and Practical Conference. Economic problems of resource provision for innovative development of the region. Proc. international. scientific. Conf. Vladimir, 2009. pp.15-19.
24. Аль-Муриш Мохамед. Некоторые проблемы информационной безопасности и основные пути их решения / А.П. Галкин, М.С Аркадьева // Актуальные проблемы развития региональной экономики / сб. научн. тр. / ВлГу, Владимир, 2008. – С.257-260.
25. Аль-Муриш Мохамед. Экономическая безопасность предприятия и мероприятия по ее укреплению / А.П. Галкин, М.С Аркадьева // Актуальные проблемы развития региональной экономики / сб. научн. тр. / ВлГу, Владимир, 2008. – С.250-256.
26. Аль-Муриш Мохамед. Защита информации от несанкционированного доступа в системах обработки данных при физических экспериментах // А.П. Галкин, Аль-Агбари Мохаммед, Суслова Е.Г. / Известия института инженерной физики. 2008 – №3. – С.42-44.
27. Аль-Муриш Мохамед. Защита информации от несанкционированного доступа в системах обработки данных при проектировании ЭС / А.П. Галкин, А. Мохаммед, Е.Г. Суслова // Проектирование и технология электронных средств. 2007 – №2. – С. 61-64.
28. Аль-Муриш Мохамед. Анализ надежности структурно-сложных невосстанавливаемых систем. Конференция «Информационные технологии в управлении», 2007.

Accepted Papers

29. Mashagbeh, H. S., Sumari, P., Mashagba, H., Almourish, M. H., Abd Aziz, A., Al-Mashagba, L. A., & Al-Qasas, W. W. (2026). Advanced and Classical Selection Methods in Genetic Algorithms: A Comprehensive Comparative Analysis. International Journal of Advanced Computer Science and Applications (IJACSA), Vol. 17, No. 4, April 2026. (Accepted – In Press)
30. Mjlae, S. A., Almourish, M. H., Aya M. Alsarayreh, A. (2026). Comparative Analysis of Machine Learning Libraries for Neural Networks: A Benchmarking Study. Electronic Government, an International Journal (Inderscience). (Accepted – In Press) – Copyright Agreement Signed

Papers Under Review

31. Mohammed Hashem Almourish. Face mask detection with the Efficient Net B7 and VGG16 models. International Conference on Innovation for Emerging Technologies, Isra University, (Under review).

32. Mohammed Hashem Almourish. Recognizing Speech Emotions with CNN And LSTM Models Based On Special Feature Extraction Techniques. International Conference on Innovation for Emerging Technologies, Isra University, 2025 (Under review).

PROFESSIONAL DEVELOPMENT

- Neural Networks and Deep Learning – DeepLearning.ai – Coursera (2026)
- Structuring Machine Learning Projects – DeepLearning.ai – Coursera (2026)

REVIEWING ACTIVITIES

- Journal Publisher Period Engineering Applications of Elsevier August 2024 – Artificial Intelligence April 2026
- PLOS ONE Public Library of 2026 Science

SERVICE ACTIVITIES (INTERNAL AND EXTERNAL)

- Internal Service (Isra University – Amman, Jordan)
- Committee/Activity Criterion V Committee (Community Partnership and External Relations) – Jordanian Accreditation Commission
- Quality Committee – Department of Computer Science
- Qualification Equivalency Committee – Department of Computer Science
- Criterion VII Committee (Quality – Community Partnership and External Relations)
- National Qualifications Framework Credit Hours Determination Committee
- Scientific Research Committee
- Examinations and Competency Exam Committee
- Strategic Planning and Risk Management Committee
- Internal Service (Taiz University – Yemen)
- Role Committee/Activity Vice Dean Quality and Academic Development (2020–2022) – Faculty of Engineering and Information Technology
- Vice Dean Academic Affairs (2018–2019) – Faculty of Engineering and Information Technology
- Vice Dean Quality and Academic Development (2012–2015) – Faculty of Engineering and Information Technology
- Head Department of Communications and Computer Engineering (2012–2013)
- Head Youth Affairs – Engineering and Information Technology (2009–2012)
- Head Quality and Academic Development Unit
- Head Graduation Projects Discussion Committees
- Member Internal Promotion Committees – Faculty of Engineering
- Member Academic Affairs Committee for Faculty Appointments
- Chairperson Academic Affairs Committee for Faculty Appointments – Faculty of Engineering and Information Technology
- Editorial Board Taiz University Research Journal Member
- External Service
- Role Institution Internal Reviewer Scientific Research for Faculty Promotions – Ibb University (Yemen)
- External Reviewer Scientific Research for Faculty Promotions – Sana'a University (Yemen)

TRAINING WORKSHOPS

- Role Workshop Title Organizer Date Committee Alternative Educational TU Delft Dec 29, 2009 Member Methodologies
- Committee Teaching Methodologies – TU Delft Jul 24 – Aug Member Track 1: Review of 5, 2010 Learning and Teaching Theories & Strategies
- Committee Teaching Methodologies TU Delft Dec 11–16, Member and Alternative 2010 Educational Methodologies

- Committee Software Description for World Bank Jun 26–28, Member Networks and Distributed 2012 Systems
- Committee Graduate Competencies World Bank Mar 18–19, Member and Educational Outcomes 2012 Framework for Computer Networks and Distributed Systems Program
- Committee Course Description for World Bank Jul 21–24, Member Computer Networks and 2013 Distributed Systems Program – Phase 2
- Participant Quality Week in Yemeni Accreditation Nov 3–5, 2013 Universities Council & Taiz University
- Committee Teaching Skills World Bank Mar 1–3, 2014 Member Development for Faculty – Computer Networks and Distributed Systems
- Committee Program Orientation for World Bank Jan 7, 2015 Member Faculty – Computer Networks and Distributed Systems
- Committee Academic Program Al-Saeed Faculty Mar 8–10, 2015 Member Description – Al-Saeed Faculty of Engineering and IT
- Committee Master's Program Graduate Studies & 2019 Member Description – Al-Saeed Faculty Faculty of Engineering and IT
- Organizer & Quality Awareness and Quality Unit, Jan 18, 2020 Committee Program Description Faculty of Member Update Workshop Engineering and IT, Taiz University
- Committee Self-Assessment for Modern University Jul 17, 2021 Member Yemeni Universities for Science and Technology
- Committee Quality Systems Academic Aug 10, 2021 Member Development according to Development and Accreditation Council Quality Assurance Requirements
- Participant Teaching Strategies Taiz University Dec 2021
- Participant Statistical Analysis Taiz University Oct 6, 2022 Software (AMOS & SmartPLS)
- Participant Annual College Taiz University Oct 31, 2022 Performance Report Preparation
- Participant Educational Resources, Taiz University 2023 Development Projects, Professional Development, Course Design, Teaching Skills, Student Assessment
- Participant Moodle Training Course Philadelphia 2024 University
- Participant Moodle Training Course Isra University 2024
- Participant Attendance Policy and Isra University Feb 23, 2025 Procedures using E-Learning System Attendance Tool
- Participant Evaluation Standards for Isra University Feb 23, 2025 Blended and Fully Online Course Sites
- Participant Digital Security and Isra University Feb 25, 2025 Faculty Accounts Protection
- Participant Formulating Effective Isra University Feb 26, 2025 and Measurable Learning Outcomes
- Participant Work-Integrated Learning Work-Learn May 20, 2026 (WIL) Seminar: Blended Institute – Learning with Work University of Integration Waterloo, Canada (in collaboration with the Ministry of Digital Economy and Entrepreneurship – Jordan)

Inshad. Jum'h

Professor of Physics

EDUCATION

- PhD-Doctor in Natural Science/Physics: University of Erlangen-Nuremberg, Germany, Ph.D. Dissertation: "Simultaneous AFM and STM measurements: Carbon allotropes, polymer and Supramolecular compounds".
- M.Sc. in Applied Physics: Jordan University of Science and Technology, Jordan Master Thesis: " High Tc Superconductors Thick film as a Magnetic Sensor".
- B.S. in Physics: Yarmouk University, Jordan.

ACADEMIC EXPERIENCE (FULL-TIME)

- October 2024-present (Sabbatical Leave): President Assistant for International Affairs, Isra University, Amman Jordan.
- August 2023- present: Professor, German Jordanian University. Basic Sciences Department.
- March 2018 – August 2023: Associate Professor, German Jordanian University. School of Basic Sciences and Humanities.
- November 2018 – September 2019: Exchange coordinator of International Office, German Jordanian University.
- September 2017 – November 2018: Vice Dean, School of Basic Sciences and Humanities, German Jordanian University.
- January 2012 – March 2018: Assistant Professor, German Jordanian University, School of Basic Sciences and Humanities.

NON-ACADEMIC EXPERIENCE (FULL TIME)

None

HONORS AND AWARDS

- The first prize (€10.000): for Women and Girls in Science in Jordan, EU-program (SRTD II): "Support to Research, Technological Development and Innovation in Jordan, 2017.
- The best proposal award / short listed: The Elsevier Foundation Chemistry for Climate Action Challenge, 2022.
- The best paper Award: The 2nd International Conference on Industry 4.0 and artificial intelligence (ICIAI 2021), Tunisia, Sousse, 2021.
- The best poster prize: The international conference Frontiers in Theoretical and Applied Physics-UAE 2017, United Arab Emirates, 2017.
- PhD Scholarship, DAAD German Academic Exchange Service Germany, 2008.
- Postgraduate certificate: Joint Universities Accelerator School (JUAS) postgraduate certificate in Accelerator physics, the European Organization for Nuclear Research CERN, 2005.
- M.Sc. Scholarship, Jordan University of science and technology, 2003.

PUBLICATION LIST

1. Hrahsheh, Fawaz, **Inshad Jum'h**, and Gerald Wilemski. "Second inflection point of supercooled water surface tension induced by hydrogen bonds: A molecular-dynamics study." The Journal of Chemical Physics 160.11 (2024). <https://doi.org/10.1063/5.0185832>

2. Chemical structure dependent electrochemical degradation of antibiotics using boron-doped diamond electrodes, R Jumah, S Alsalman, I Jum'h, M Al-Addous... - Journal of Environmental Chemical Engineering, **2024**.
3. Telfah, A., Al-Akhras, M. A., AlShheamat, H., Mousa, M. S., **Jum'h, I.**, Albawab, A. Q., ... & Hergenröder, R. Dissociation Kinetics and Antimicrobial Activity of Ofloxacin Antibiotic in Artificial Tears Via 1H-NMR, Raman, and UV-Vis Spectroscopic Analysis. Journal of Ocular Pharmacology and Therapeutics, 40(1), 78-88, (**2024**). <https://doi.org/10.1089/jop.2023.0019>
4. Ahmad Telfah, Ayten Kalfe-Yildiz, Qais M. Al Bataineh, **Inshad Jum'h**, Carlos J. Tavares, Roland Hergenröder, Thermal-dependent morphological evolution effect on ion transportation in polyethylene oxide films, Polymer, Volume 288, **2023**, <https://doi.org/10.1016/j.polymer.2023.126440>.
5. Ahmad Telfah, Nour Abu Shari'ah, Riad Ababneh, Ahmad Bahti, M-Ali Al-Akhras, Yusuf Al-Hiari, **Inshad Jum'h**, Rana Abu-Dahab, Mahmoud Telfah, Qais M. Al Bataineh, Roland Hergenröder, 1H-NMR analysis of fluoroquinolone (pyridopyrrole quinoxaline, PPQ) conjugated to gold nanoparticles for synergistic anticancer drug design, Journal of Molecular Structure, Volume 1292, 2023, <https://doi.org/10.1016/j.molstruc.2023.136081>.
6. Mahmoud Telfah, M-Ali Al-Akhras, Ahmad Telfah, **Inshad Jum'h**, Riad Ababneh, Yasser Bustanji, Yusuf Al-Hiari, Roland Hergenröder, 19F- and 1H-NMR investigations of ofloxacin fluoroquinolone tethered with silver nanoparticles as synergistic antibiotic combinations, Journal of Molecular Structure, Volume 1292, 2023, <https://doi.org/10.1016/j.molstruc.2023.136024>.
7. Ababneh, R., Smadi, M., Bensiradj, N.E.H. et al. UV-Vis, FTIR and DFT Studies of the Fluoroquinolone [Pyrido Pyrolo Quinoxaline (PPQ)] Tethered to Gold Nanoparticles as a Novel Anticancer. J Inorg Organomet Polym 33, 1646–1656 (2023). <https://doi.org/10.1007/s10904-023-02596-x>
8. **Inshad Jum'h**, Husam H. Abu-Safe , Morgan E. Ware , I. A. Qattan , Ahmad Telfa and Carlos J. Tavares, Surface Atomic Arrangement of Aluminum Ultra-Thin Layers Grown on Si(111), Nanomaterials, Vol. 13(6), 970, **2023** <https://doi.org/10.3390/nano13060970>.
9. **Inshad Jum'h**, Rashed Abu-Aleqa, Rami Jumah, Carlos J. Tavares, Ahmad Telfah, Efficiency of TiO₂/Fe₂NiO₄ Nanocomposite in Photocatalytic Degradation of Acid Orange 7 (AO7) Under UV Irradiation. Water Air Soil Pollut Vol. 234, 18, **2023**, <https://doi.org/10.1007/s11270-022-05978-y>
10. **Inshad Jum'h**, Ahmad Telfah, Marwan S. Mousa, Mais Jamil A. Ahmad, Carlos J. Tavares, Roland Hergenröder, “XPS and UV-Vis Studies of Nanoparticle Positioning Effect on Optical, Morphological and Structural Properties of Metal-Polymer Nanocomposites“ Journal of Applied Polymer Science, Vol. 139 (26), e52433, **2022**, <https://doi.org/10.1002/app.52433>.
11. **Inshad Jum'h**, Yousef Al-Abdallat, Ehab M. AlShamaileh, Mohammad D. AL-Tahat, and Ahmad Telfah, “Polypyrrole-Metal Oxide-Carbon Nanocomposite Films Corrosion Enhancement on Industrial Steel“. 2nd International Conference on Industry 4.0 and Artificial Intelligence (ICIAI), Vol 175., 193-198, **2022**. <https://DOI:10.2991/aisr.k.220201.034>
12. Ahmad A. Ahmad, Areen A. Bani-Salameh, Qais Al-Bataineh, **Inshad Jum'h**, Ahmad Telfah. „Optical, structural and morphological properties of synthesized PANI-CSA-PEO-based GaN nanocomposite films for optoelectronic applications“ Polymer Bulletin, Vol. 80, 809–828, 2023, <https://doi.org/10.1007/s00289-021-04033-w>.
13. M. Al-Gharram, **I. Jum'h**, A. Telfah, M. Al-Hussein, “ Highly crystalline conductive electrodeposited films of PANI-CSA/CoFe₂O₄ nanocomposites“ Colloids and Surfaces A: Physicochemical and Engineering Aspects 628, 127342, **2021**, <https://doi.org/10.1016/j.colsurfa.2021.127342>.
14. A. Abdelhay, **I. Jum'h**, A Albsoul, D. Abu Arideh, B. Qatanani, “Performance of electrochemical oxidation over BDD anode for the treatment of different industrial dye-containing wastewater effluents“, Water Reuse 11 (1), 110-121, **2021**, <https://doi.org/10.2166/wrd.2020.064>.

15. Mokhtari, D. J., **Inshad Jum'h**, H. Baaziz, Z. Charifi, T. Ghellab, Ahmad Telfah, and Roland Hergenröder. "Structural, electronic, magnetic and thermoelectric properties of inverse Heusler alloys Ti_2CoSi , Mn_2CoAl and Cr_2ZnSi by employing Ab initio calculations." *Philosophical Magazine* Vol. 100 (12), 1636-1661, **2020**, <https://doi.org/10.1080/14786435.2020.1731926>
16. Alsaad, A. M., Qais M. Bataineh, A. A. Ahmad, **Inshad Jum'h**, Nabil Alaqtash, and Areen Bani-Salameh. "Optical properties of transparent PMMA-PS/ZnO NPs polymeric nanocomposite films: UV-Shielding applications." *Materials Research Express* Vol. 6, 126446, **2019**, DOI 10.1088/2053-1591/ab68a0.
17. Jameel, Dler Adil, John Fredy Ricardo Marroquin, Mohsin Aziz, Noor Alhuda Al Saqri, **Inshad Jum'h**, Ahmad Telfah, Mohamed Henini, and Jorlandio Francisco Felix. "Investigation of the effects of GaAs substrate orientations on the electrical properties of sulfonated polyaniline based heterostructures." *Applied Surface Science*, 144315. Vol. 504,144315, **2020**, <https://doi.org/10.1080/14786435.2020.1731926>
18. **Inshad Jum'h**, Marwan S. Mousa, Mahmoud Mhawish, Suhad Sbeih, Ahmad Telfah, "Optical and structural properties of (PANI-CSA-PMMA)/NiNPs nanocomposites thin films for organic optical filters." *Journal of Applied Polymer Science* Vol. 137 (18), 48643, **2020**, <https://doi.org/10.1002/app.48643>
19. Abdelhay, Arwa, **Inshad Jum'h**, Abeer Albsoul, and Dina Al Tarazi. "Dairy wastewater remediation using electrochemical oxidation on boron doped diamond anode (BDD)." *Desalination and Water Treatment*, Vol. 171 177–182, **2019**, doi: 10.5004/dwt.2019.24753
20. Yousef Al-Abdallat, **Inshad Jum'h**, Abeer Al Bsoul, Rami Jumah, Ahmad Telfah, "Photocatalytic Degradation Dynamics of Methyl Orange Using Coprecipitation Synthesized Fe_3O_4 Nanoparticles." *Water, Air, & Soil Pollution* Vol. 230:277, **2019**, <https://doi.org/10.1007/s11270-019-4310->
21. **I. Jum'h**, S. Sâad essaoud, H. Baaziz, Z. Charifi, A. Telfah, "Electronic and magnetic structure, elastic and thermal properties of Mn_2 -based full Heusler alloys", *J Supercond Nov Magn*, DOI 10.1007/s10948-019-5095-3, **2019**. Vol. 32, pp 3915–3926. **2019**, <https://doi.org/10.1007/s10948-019-5095-3>
22. Abeer Al Bsoul, Mohammad Hailata, Arwa Abdelhay, Muhammad Tawalbeh, **Inshad Jum'h**, Khalid Bani-Melheme, "Treatment of olive mill effluent by adsorption on titanium oxide nanoparticles", *Science of The Total Environment*, Vol. 688, pp. 1327-1334, **2019**, <https://doi.org/10.1016/j.scitotenv.2019.06.381>
23. Riad Ababneha, Ahmad Telfah, **Inshad Jum'h**, Mohammad Abudayah, Yousef Al-Abdallat, Jörg Lambert, Roland Hergenröder, 1H NMR spectroscopy to investigate the kinetics and the mechanism of proton charge carriers ionization and transportation in hydrophilic/hydrophobic media: Methyl sulfonic acid as a protonic ion source in water/alcohol binary mixtures, *Journal of Molecular Liquids*, Vol. 265, 621-628, **2018**, <https://doi.org/10.1016/j.molliq.2018.05.134>
24. Ahmad Telfah, Mousa Jafar, **Inshad Jum'h**, Mais Jamil, Jörg Lambert, Roland Hergenröder, "Identification of relaxation processes in pure polyethylene oxide (PEO) films by the dielectric permittivity and electric modulus formalisms", *Polymer for Advance Technology*. Vol.29, 7, pp 1974-1987, **2018**, <https://doi.org/10.1002/pat.4306>
25. **Inshad. Jum'h**, Arwa. Abdelhay, Ahmad. Telfah, M-Ali Al-Akhras, Akeel. Al-Kazwini, Stefan. Rosiwal, "Veratric acid removal from water by electrochemical oxidation on BDD anode". *Materials Science and Engineering Journal*. Vol 305, **2018**. DOI 10.1088/1757-899X/305/1/012021
26. **Inshad Jum'h**, Ahmad Telfah, Jörg , Lambert, Mikheil gogiashvili, Huessein Altaani, Roland Hergenröder, " ^{13}C - and 1H -NMR measurements to investigate the kinetics and the mechanism of acetic acid (CH_3CO_2H) ionization as a model for organic acids dissociation dynamics for

- polymeric membrane water filtration“, *Journal of Molecular Liquids*, Vol 227 pp 106–113, **2017**.
<https://doi.org/10.1016/j.molliq.2016.11.108>
27. **Jum'h, Inshad**, et al. "Fabrication and application of boron doped diamond BDD electrode in olive mill wastewater treatment in Jordan." *Journal of Water Reuse and Desalination* 7.4 (2017): 502-510.
 28. **I. Jum'h**, M.S. Abd EL-Sadek, H. AL-Taani, I.S. Yahia, G. Karczewski, "Influence of Illumination on the Electrical Properties of p-(ZnMgTe/ZnTe:N)/CdTe/n-(CdTe:I)/GaAs Heterojunction Grown by Molecular Beam Epitaxy (MBE)", *Journal of Electronic Materials*, Vol. 46, No. 2, **2017**. <https://doi.org/10.1007/s11664-016-5071-7>
 29. **I. Jum'h**, M. AL-Addous, H. AL-Taani, M.S. ABD El-Sadek, N. Ayoub. "Effect of Boron Concentration on Nano-crystalline Diamond Deposited on Niobium Substrates", *Digest Journal of Nanomaterials and Biostructures* 12 (2), 589-593, **2017**.
 30. H. Al-Taani, **I. Jum'h**, M.S. Abd El-sadek, V. V. Dremova, "Super Sharp-Metal Tips for Combined Scanning Tunneling and Force Microscopy Based on Piezoelectric Quartz Tuning Fork Force Sensors", *Digest Journal of Nanomaterials and Biostructures*, Vol. 12, No. 1, p. 47 – 51, **2017**.
 31. Arwa Abdelhay, Abeer Al Bsoul, Amani Al-Othman, Nada M Al-Ananzeh, **Inshad Jum'h**, Ahmed A Al-Taani, "Kinetic and thermodynamic study of phosphate removal from water by adsorption onto (*Arundo donax*) reeds", *Adsorption Science & Technology*, Vol 36, pp. 46-61, **2017**.
 32. Abdelhay, Arwa, **Jumh Inshad**, Abdulhay, Enas, Al-Kazwini, Akeel, Alzubi, Mashacl. "Anodic oxidation of slaughterhouse wastewater on boron doped diamond: process variables effect". *Water Science and Technology*. Vol 76, pp 3227-3235, **2017**.
 33. **I. Jum'h**, W. AL Sekhaneh, H. AL-Taani, B. A. Al-Biss, "Preparation and cherctrization of high quality single walled carbon nanotube using ARC discharge technique", *Digest Journal of Nanomaterials and Biostructures*, Vol. 11, No. 2, pp. 517 – 523, **2016**.
 34. **Inshad Jum'h**, Borhan Al-Biss, Slava.dremova, "Production of low-cost, high quality graphene and few layered graphene (FLG) on conductive substrate", *Digest Journal of Nanomaterials and Biostructures*, Vol. 11, No. 1, pp. 277 – 282, **2016**.
 35. V. V. Dremova,, **I. Jum'h**, H. A. Harramova, and P. H. Müllerd, "A Method for Manufacturing a Probe for a Combined Scanning Tunneling and Atomic Force Microscope on the Basis of a Quartz Tuning Fork with a Supersharpe Metal Tip", *Instruments and Experimental Techniques*, Vol. 56, No. 5, pp. 584–588, **2013**.
 36. N. Fischer, M. Alam, I. Jum'h, M. Stocker, N. Fritsch, V. Dremov, F. Heinemann, N. Burzlaff, P. Müller, "trans-1,2-Bis(N-methylimidazol-2-yl)ethylene: Towards Building Block for 2D Fabrics and MML-Type Molecular Strands", *Chem. Eur. J.* 17,9293–9297, 2011.
 37. M. Gharaibeh, B. A. Al-Biss, I. Jumah, and I. Obaidat. Effective incorporation of nanoceria into polycrystalline MgB2. *J. Appl. Phys* 107, 063908, 2010.
 38. B. A. Albiss, W. Sakhaneh, I. Jumah, I. Obaidat, "NO2 Gas Sensing Properties of ZnO/Single-Wall Carbon Nanotube Composites". *Sensors Journal*, IEEE 10, 1807 – 1812, 2010.
 39. Riad Ababneh, Maha Smadi, Nour Bensiradj, M-Ali Al-Akhras, Yusuf Al-Hiari, Inshad Jum'h, Rana Abu-Dahab, Mahmoud Telfah, Qais M. Al Bataineh, Ahmad Telfah, UV–Vis, FTIR and DFT Studies of the Fluoroquinolone [Pyrido Pyrolo Quinoxaline (PPQ)] Tethered to Gold Nanoparticles as a Novel Anticancer, *Journal of Inorganic and Organometallic Polymers and Materials*, DOI.10.1007/s10904-023-02596-x, **Accepted**.

PROFESSIONAL DEVELOPMENT

- Consultant: (Green Jordan) the Non-Governmental organization in Jordan

SERVICE ACTIVITIES (INTERNAL AND EXTERNAL)

- Scientific evaluation member: Scientific Research Innovation Support fund (SRISF), Ministry of Higher Education & Scientific Research/ Jordan.
- Scientific evaluation member: The Abdul Hameed Shoman Foundation Research Support Fund/ Jordan.
- Reviewer - local Journals
- Reviewer-International Journals:
- Arabian Journal of Chemistry/Elsevier
- Chemical Engineering and Processing – Process Intensification/Elsevier
- Journal of Molecular Liquids/Elsevier
- Nanostructures & Nano-Objects/Elsevier
- Ph.D Co-Supervisor, Master Co-Supervisor: Different Jordanian universities
- External Examiner: Master thesis in different Jordanian universities.
- Supervisor and Consultant: for scientific projects Jordanian High School Student to Compete in Intel.

TRAINING WORKSHOPS

- **Conference:** 9th International Conference on Nanomaterials, Nanodevices, Fabrication and Characterization. PANI-CSA/TiO₂ - Fe₂NiO₄ Nanocomposite Films: Optical, Morphological, and Structural Properties | London, United Kingdom, April 08 - 10, 2024.
- **Conference:** The 2023 Fall Meeting of the European Materials Research Society (E-MRS), Controlled Nanoscale Doping Effect on Metal-Polymer Nanocomposites Properties for Optoelectronics Application, September 18 to 21, 2023.
- **Conference National Committee:** International Conference, Humboldt Kolleg, "How to Change the World via Science", German Jordanian University, June 9-11, 2022.
- **Training of Trainers:** Advanced Innovation and Entrepreneurship Training of Trainers (ToT), Care Jordan 31.October to 11 November, 2021.
- **Conference:** participating in the international conference on INDUSTRY 4.0 AND ARTIFICIAL INTELLIGENCE (ICIAI 2021), Tunisia, Sousse 2021.
- **Organizing Committee and Speaker:** DAAD German Jordanian School 2020 (DGJS 2020), Virtual School, December 07-16, 2020.
- **Conference:** Scientific committee of the international conference on INDUSTRY 4.0 AND ARTIFICIAL INTELLIGENCE (ICIAI 2021), Tunisia, Sousse 2020.
- **Seminar:** participating in the International DAADn Alumni-Seminar "Applied Engineering for Smart Integration of Renewable Energy in Value Chains in Developing Countries" at the University of Kassel in Witzenhausen (24. – 31.03.2019) and the subsequent visit of the "Hannover Messe 2019" in Hannover (01.04. – 06.04.2019).
- **Conference:** Organizing committee of the international conference on current nanotechnology and its Applications (ICCNA2018) at Jordan university of science and technology 2018.

- **Seminar:** “Return or Stay” organized by the Centre for International Migration and Development (CIM) on Jordanian and Palestine, from 06.04. - 08.04.2018 in Berlin.
- **Conference:** the 2nd International Conference on Advanced Materials (ICAM-2017) at Jordan university of science and technology- Jordan 2017.
- **Conference:** International conference Fontiers in Theoretical and Applied Physics-UAE 2017, United Arab Emirates, February 2017.
- **Workshop:** At the School of Physics and Astronomy at Nottingham University 2016.
- **Workshop:** "Nanotechnology in Heavy Metal Removal and Water Treatment and scientific day of nanotechnology" in the fram work of a Collaboration between German Jordanian Universityand Jordan University of Science and Technology with the Leibniz Institute for Analytical Science-ISAS-e.V. from Dortmund, Germany, 26–28 April 2016.
- **Conference:** the International Conference Advanced Materials (ICAM2015), Jordan University of Science and Technology, Irbid, Jordan. April 2015.
- **Workshop:** "Heavy Metal Removal and Water Treatment" within the Collaboration Project BetweenGerman Jordanian University and Leibniz Institute for Analytical Science-ISAS-e.V. at German Jordanian University Campus, October 2015.
- **Conference:** International conference in Cairo" Network conference “Where do we go from here? – Perspectives on Equal Opportunity Policies at Egyptian and German Universities”. Cairo University 2014.
- **Seminar:** International Summer School "Gender in Teaching“, Campus der TU Berlin in El Gouna 2014.
- **Conference:** “One-dimensional coordination polymers: towards molecular wires”, DPG March meeting, Dresden. Germany 2011.
- **Meeting:** “Combined AFM/STM for imaging of nanostructures under ambient conditions”, Klausurtagung des Interdisciplinary Center for Molecular Materials (ICMM) Universität Erlangen, Staffelstein, 2010.
- **Conference:** “Investigation of Hybrid nanostructures using AFM/STM based on tuning fork sensors”, DPG March meeting, Regensburg, Geramny, 2010.
- **Spring School:** 40th IFF School, Spintronics from GMR to quantum Information, Julich, Germany, 2009.
- **Winter school:** Joint Universities Accelerator School (JUAS), the European Organization for Nuclear Research CERN, 2005.
- **Staff mobility (October 2023)** at Schweinfurt, Germany, funded by Erasmus+.
- **GJU staff mobility (December 2022)** at Erlangen University, Germany, funded by GJU and DAAD.
- **Research stays (Summer 2015-2019)** at ISAS (Leibniz-Institute for Analytical science), Dortmund Germany funded by DAAD, Scientific Award for research, ISAS (Leibniz-Institute for Analytical science),
- **Research stay** (Summer 2014) at Leibniz-Institute for Analytical science funded by The Mobility Grant, The EU-Jordan Net II project.
- **Fellowship:** research stay (2013), at Institute of Metals Science and Technology, Erlangen- Nuremberg University, Germany., Germany, funded by DFG: German Research Foundation



ASSOCIATE PROFESSORS

FACULTY VITAE

9 faculty members | Final pages 35-72

Mohammad Ali H. Eljinini

Associate Professor

EDUCATION

02 / 2007	Ph.D. in Health Informatics City, University of London, UK .
08 / 1992	M.Sc. in Computer Science. GPA: 3.6 Jackson State University, Jackson, MS, USA .
12 / 1990	B.Sc. in Computer Science. GPA: 3.1, Major: 3.3 Jackson State University, Jackson, MS, USA .

ACADEMIC EXPERIENCE (FULL-TIME)

2014-Now	Associate Professor Computer Information Systems Department Faculty of Information Technology Isra University, Amman-Jordan.
2021-2022	Dean of Faculty of IT Faculty of Information Technology Isra University, Amman-Jordan.
2012-2016	Dean of Faculty of IT Faculty of Information Technology Isra University, Amman-Jordan.
2007-2012	Head of Computer Science Department Faculty of Information Technology Isra University, Amman-Jordan.
2007-2013	Assistant Professor Computer Science Department Faculty of Information Technology Isra University, Amman-Jordan.
1996-2006	Lecturer of Computer Science Computer Science Department Faculty of Science and Information Technology Al-Isra Private University, Amman-Jordan.
1994-1995	Lecturer of Computer Science Tougaloo College; Tougaloo, MS 39174, USA . Tel: (601) 977-7777.

NON-ACADEMIC EXPERIENCE (FULL TIME)

- 06/95-05/96** Systems Manager/Programmer
UNITEL Corporation; 3895 Metro Drive, Jackson, MS 39219, **USA**.
- 12/93-05/95** Network Administrator
Phoenix Communications Inc., A Sub-division of UNITEL Corporation.
953 Bailey Avenue, Jackson, MS 39203. **USA**.
- 06/90-09/91** Computer Technician/Programmer
Jackson State University; Chemistry Department
1400 Lynch St., Jackson, MS 39209, **USA**.

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

None

PROFESSIONAL ORGANIZATIONS

- 2018-Now** Society of E-Health Development – Jordan (*Cofounder Member*).
- 2013-Now** Society of Arabic Language Computerization and Enrichment of Arabic E-content – Jordan (*Cofounder Member*).
- 2021-Now** International Academy of Public Health (IAPH) – Member of the Health Informatics specialty committee - Jordan (*Counseling*)
- 2007-Now** ACM Computing Machinery (*Senior Member*) - USA.
- 1996-Now** Jordan Computer Society - Jordan.

HONORS AND AWARDS

- 2024-Now** Senior Member of the ACM Computing Machinery - USA
- 2000-2001** The distinguished Teacher Award, Isra University, Amman – Jordan.
- 1990-1993** MBRS GRANT, Jackson State University, MS – USA.
- 1990-1991** CUM LAUDE, Jackson State University, MS – USA.
- 1988-1989** DEAN'S LIST, Jackson State University, MS – USA.

PUBLICATION LIST

- [1] **Mohammad Ali Eljinini**, 2026. "Fun Tac Toe: A Multi-Platform Game-Based Learning Approach Integrating Trivia with Classic Gameplay". *Submitted to the 20th European Conference on Game Based Learning (ECGBL 2026)*.
- [2] Yousef Sharrab, Abdel-Rahman F. Al-Ghuwairi, Ahmad Sharieh, Maria Ghanim, **Mohammad Ali H. Eljinini**, 2026. "Images Classifications to Detect Pneumonia Disease". *The 3rd International Conference on Intelligent Digitization of Systems and Services (IDSS2026), San Antonio, Texas, USA, 12-15 May 2026*.
- [3] Y.O. Sharrab, M.A. Alshabatat, H.H. Attar, B.M. Irtahi, **M.A.H. Eljinini**, M. Khosravi, M.A. Hafez, "Enhanced Intelligent Transportation Network Systems for Optimized Emergency Medical Services Management", *International Journal of Intelligent Networks*, 2026. <https://doi.org/10.1016/j.ijin.2025.11.010>. (Q1)

- [4] Sharrab, Y.O., Irtahi, B.M., **Eljinini M.A.H.** et al. "Integrating Deep Learning and Statistical Models for Traffic Prediction and Accident Prevention in Smart Cities". *Cluster Computing*, Vol.28:1072 (2025). <https://doi.org/10.1007/s10586-025-05741-y> (Q1)
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- [7] Abdulrahman Al Shayea*, **Mohammad Ali H. Eljinini**, 2023. "Reducing the Effect of Denial of Service in Web Service Environment". *Journal of Advances in Information Technology*, Vol. 14, No. 5, pp. 1096-1102. (Q3)
- [8] **Mohammad Ali Eljinini**, Jamal Zraqou, Adi A. Maaita, Wesam Alkhadour, 2022. "Towards a Smart Campus: Smart Classroom Management". *International Journal of Advanced Research in Computer and Communication Engineering (IJARCCE)*, Vol. 11, No. 6, 22-27, June 2022. ISSN: 2278-1021. (Q0)
- [9] Saoud Abbade*, **Mohammad Ali H. Eljinini**, Osama Qtaish, 2022. "A New Model for Intrusion Detection Systems Using Bat Algorithm". *Int. J. Internet Technology and Secured Transactions*, Vol. 12, No. 5, 425. (Q4)
- [10] Maryam Mohammed Al-Nussairi*, **Mohammad Ali H. Eljinini**, 2022. "A Hybrid Approach for Enhancing the Classification Accuracy for Diabetes Disease". *Journal of Information Technology Research (JITR)*, Vol. 15, No. 1. (Q0) (Web of Science - ESCI)
- [11] **Mohammad Ali H. Eljinini**, Ahmad Tayyar, 2020. "Collision-Free Random Paths Between Two Points". *International Journal of Intelligent Systems and Applications*, Vol. 12, No. 3, 27-34, June 2020. SSN: 2074-904X (Print), ISSN: 2074-9058. (Q0)
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- [14] **Mohammad Ali H. Eljinini**, Salwa A. Al-Samerrae, 2018. "Effect of Availability of Supplies to Applications For Electronic Exams System in Success Execution Process A Pilot Study For Opinions of a Sample From Students Lecturers in Al-Israa University", *Tanmiat Al-Rafidain*, Vol. 37, No. 117, 271-296, 2018. ISSN:1609591X.
- [15] Salwa Alsamarai, Amaal Amawi, **Mohammad Ali H. Eljinini**, "E-Assessments Systems: A Comparison of the Views of Samples of Students and Professors", in the *Journal of Management Science and Engineering*, Vol. 8, No. 3, 5-10, 2014. ISSN 1913-0341.
- [16] **Eljinini MA**, Muhsen Z, Maaita A, Alnsour A, Azzam MA, Barhoum K, 2013. "The Utilization of the Moodle E-Learning System in Isra University", *Advances in Intelligent Systems and Computing*, Vol. 220, 2013, 75-81. ISBN 978-3-319-00568-3. (Q4)
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- [18] **Mohammad Ali H. Eljinini**, 2019. "The Medical Semantic Web: Opportunities and Issues", Chapter in Book: *Network and Communication Technology Innovations for Web and IT Advancement.* IGI Global, 2013. 19-29. doi:10.4018/978-1-4666-2157-2
- [19] **Eljinini MA**, Muhsen Z, 2013. "The Impact on the Utilization of E-Learning Systems", *International Journal of Emerging Trends & Technology in Computer Science (IJETTCS)*, Vol. 2, No. 3, 171-175, May-June 2013, ISSN: 2278-6856.

- [20] **Eljinini Mohammad Ali**, Alsamarai Salwa, Hameed Suha, Amawi Amaal, "The Impact of E-Assessments System on the Success of the Implementation Process", in the *International Journal of Modern Education and Computer Science (IJMECS)*, Vol. 4, No. 11, 76-84, December 2012, ISSN: 2075-0161. (Q2)
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- [27] Hadi WM, **Eljinini MA**, 2010. "Automated Arabic Text Categorization Using SVM and KNN", in: *Proceedings of the International Business Information Management Conference (15th IBIMA)*, November 6-7, 2010, Cairo, Egypt. ISBN: 978-0-9821489-4-5.
- [28] Hadi WM, Mohammad AH, **Eljinini MA**, Ghatasheh MS, 2010. "Performance of NB and SVM Classifiers in Arabic Text Data", in: *Proceedings of the International Business Information Management Conference (14th IBIMA)*, June 23, 2010, Istanbul, Turkey. ISBN: 978-0-9821489-3-8.
- [29] **Eljinini MA**, 2010. "The Role of Ontology in the Process of Extracting Information from Online Resources", in: *Proceedings of the 2010' Joint Scientific Symposium of Faculty of Science and Information Technology and Baghdad Economic University college*, May 9, 2010, Isra University, Amman-Jordan.
- [30] **Eljinini MA**, Sarhan NA, Carson ER, 2010. "Ontological Approach for Extracting and Structuring Information on the Web", in the *International Journal of ACM Jordan*, Vol. 1, No. 1, March 2010, ISSN: 2078-7952, 28-40.
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- [33] **Eljinini MA**, Sarhan NA, 2007. "An Ontology for extracting information from the World Wide Web", in: *Proceedings of the Second Scientific Conference. (Administrative and Strategic Thinking in changing world)*, Faculty of Administrative & Financial Sciences, AL-Isra Private University, Amman-Jordan.
- [34] **Eljinini MA**, Sarhan NA, Carson ER, 2006. "Towards the semantic web: extracting common concepts from chronic disease - related websites", in: *Proceedings of the*

International Medical Informatics and Biomedical Engineering Conf. (IMIBE'06), Amman-Jordan, 118-123.

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PROFESSIONAL DEVELOPMENT

- **Mohammad Ali H. Eljinini**, 2019. "Practical Data Structures with C++, C#, and Java", Amazon Press, 2019. ISBN: 978-9957-67-400-7
- Ayman J. Alnsour, **Mohammad Ali H. Eljinini**, Anas H. Abu-Taleb, 2011. "Computer Skills – Hardware & Software (Windows 7 & Office 2010)", 4th Edition, Dar Wael Publishing Co., Amman, Jordan, 2014. ISBN : 978-9957-91-142-3.
- Ayman J. Alnsour, **Mohammad Ali H. Eljinini**, Anas H. Abu-Taleb, 2011. "Computer Skills – Hardware & Software (Windows 7 & Office 2007)", Dar Wael Publishing Co., Amman, Jordan, 2011. ISBN : 978-9957-91-037-2.
- **Mohammad Ali H. Eljinini**, 2012. "Towards The Semantic Web", LAP LAMBERT Academic Publishing, Saarbrücken, Germany, 2012. ISBN 978-3-8465-8288-6.
- Ayman J. Alnsour, **Mohammad Ali H. Eljinini**, Anas H. Abu-Taleb, 2011. "Computers and Software – Computer Skills (Windows XP & Office XP)", Dar Wael Publishing Co., Amman, Jordan, 2011. ISBN : 978-9957-11-973-7.

SERVICE ACTIVITIES (INTERNAL AND EXTERNAL)

- University website committee
- Integrating e-learning and face-to-face education Committee
- Several investigation committees
- Committee for the placement of academic programs within the National Qualifications Framework
- Member of the Computer Center Council
- Member of the eLearning Center Council

TRAINING WORKSHOPS

- Quality Evaluator Certificate for Higher Education Institutions offered by the Higher Education Accreditation Commission.
- Completing the national capacity development course to develop e-learning in higher education institutions presented by the Ministry of Higher Education and Scientific Research.
- Completing an effective e-learning design course offered by the Queen Rania Academy for Teacher Training.

Abdulahman M. Shafee

Associate Professor

EDUCATION

PhD Information Systems	Data intensive algorithms within cloud computing, Faculty of Computers & Information, Cairo Egypt	December 2016
M.Sc. Information Systems	Applying Data Mining Techniques for Ontology Building Using Web Languages Faculty of Computers & Information, Cairo University, Egypt	2008
B.Sc. in Computers and information, Major Information Systems	Faculty of Computers & Information, Cairo University, Egypt	2000

ACADEMIC EXPERIENCE (FULL-TIME)

- Associate professor, Faculty of computer science, Nahda university, Egypt
- Associate professor, Faculty of information technology, Isra university, Jordan

NON-ACADEMIC EXPERIENCE (FULL TIME)

- Senior Researcher at Center for Climate Change, Renewable Energy and Expert Systems, Agricultural research center, Egypt.

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

- Microsoft Certified: Azure Fundamentals (AZ-900), Microsoft, 2026
- Neural Networks and Deep Learning, DeepLearning.AI / Coursera, April 2026.
- Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization, DeepLearning.AI / Coursera, May 2026.
- Structuring Machine Learning Projects, DeepLearning.AI / Coursera, May 2026.

PROFESSIONAL ORGANIZATIONS

None

HONORS AND AWARDS

- Second Prize, Annual Award of the Association of Arab Universities for Food Security in the National Field, awarded for the development of the MISSR (Mentoring Interactive System for Stripe Rust) mobile application for wheat protection and food security, 2022–2023.

PUBLICATION LIST

- [1] Maged, W., Elsayed, A., Mahmoud, R. and Thabet, M., 2026. Deep learning and GIS integration for plant disease diagnosis and management. Discover Artificial Intelligence, 6(1), p.344.

- [2] Elsayed, A., Hamouda, S., Mohamed, A., Ali, M.M.R. and Mjlae, S.A., 2026, April. From Client-Side to Server-Side: Rethinking Web Security in the Age of Multimodal AI. In 2026 1st International Conference on Emerging Technologies and Engineering Systems (ICETES) (pp. 296-300). IEEE.
- [3] Morse, M.H., Gouda, K., Yassin, A.E. and Elsayed, A., 2025, August. Smart Data Integration: A Semi-automated Ontology Framework for Improved Efficiency. In International Conference on Advanced Machine Learning Technologies and Applications (pp. 201-210). Cham: Springer Nature Switzerland.
- [4] Elsayed, A., FE Susan, M Nevien, AM Azazy. 2025, Context based expert system for diagnosing tomato pests, Egyptian Journal of Plant Protection Research Institute 8 (1), 33-40
- [5] Ellakwa, S.F., Elsayed, A., Elnemr, R., Saheir, F. and Azazy, A.M., 2023. A System for Identifying Entomopathogenic Nematodes. International Journal for Computers & Their Applications, 30(4).
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- [7] Framework for Intelligent Early Warning Systems of Crop Diseases, A Elsayed, N Moawad, International Journal of Advanced Trends in Computer Science and Engineering , 2022
- [8] Elsayed, A. and Ellakwa, S.F., Arabic Dataset For Farmers'intent Identification Toward Developing AChatbot.
- [9] Elsayed A, Ellakwa SF.,2022. "Framework for Mobile based Expert System for Poultry Diseases", A Elsayed, M Hazman, International Journal of Computer Applications 183 (4), 1-5
- [10] Smartphone Application for Diagnosing Maize Diseases in Egypt., Nevien Moawad, Elsayed, Abdelrahman". IIT 2020: IEEE 14th International Conference on Innovations in Information Technology.

PROFESSIONAL DEVELOPMENT

- Artificial Intelligence and Machine Learning
- Teaching and Accreditation
- Ethical Hacking and Penetration Testing
- Scientific Publishing and Research Methodology Workshop
- Academic Writing for High-Impact Journals

SERVICE ACTIVITIES (INTERNAL AND EXTERNAL)

- Member, Committee for Integrating E-Learning and Website Development.
- Faculty Evaluator for Student Research and Innovation Projects.
- Participant, University Open Days and Student Recruitment Events.
- Collaborator in interdisciplinary research projects with the Agricultural Research Center, Egypt.
- Collaborator in research projects with Amman AL-Ahlia university, Jordan.
- Contributor to mobile and expert systems supporting agricultural extension and food security.

TRAINING WORKSHOPS

- Participated in IEEE Day, organized by IEEE Student Branch at Isra University.
- Attended Workshop on Drone Technologies and Applications.
- Participated in Faculty Scientific Day and presented research activities.

ALI MOHAMMAD ALI IBRAHIM

Associate Professor

EDUCATION

- [1] **Ph.D. Degree in Computer Information System (CIS)** - Arab Academy for Banking and Financial Sciences - Completed April 2008
Thesis topic: DRILA: Distributed Relational Inductive Learning Algorithm
Area of Study: Artificial intelligence, Database.
- [2] **Master's degree in computer science & information technology (IT)** - Faculty of Science & IT, Alneelain University (Jordan Class) - Completed January 2003
Thesis topic: Continuous Inductive Learning Algorithm (CILA)
- [3] **Bachelor's degree in computer science (CS)** - Faculty of Science, Yarmouk University, Jordan - Completed 1988

ACADEMIC EXPERIENCE (FULL-TIME)

- [1] **Isra University (IU)** - Amman - Jordan (October 2024)
Job Title: Associate Professor in Computer I Department
- [2] **Applied Science University (ASU)** - Amman - Jordan (October 2023- October 2024)
Job Title: Associate Professor in Computer Science Department
- [3] **Irbid National University (INU)** - Irbid Jordan (March 2023 - September 2023)
Job Title: Associate Professor in Data Science and Artificial Intelligence Department
 Data science and Artificial Intelligence Department Manager
- [4] **The World Islamic Sciences and Education University (WISE)** - Amman, Jordan (February 2011 - January 2021)
Job Title: Associate Professor in Computer Science Department (July 2016-date).
 Computer Science Assistant Professor (Feb 2011-July 2016).
 Computer Science Department Manager (2014-2015).
 HR Manager (2011-2012).
- [5] **Jadara University** - Irbid - Jordan (2010 - 2011)
Job Title: Computer Science Assistant Professor (2010-2011)

NON-ACADEMIC EXPERIENCE (FULL TIME)

- [1] **Arab Potash Company (APC)** - Karak, Jordan (April 1991-Dec 2009)
 - **Job Title:** Programmer (1991-2006).
 - Programmer & System Analyst (1996-1999).
 - President of Development & Progress Unit (IT Directorate) (1999-2006).
 - Human Resources Manager (2006-2009).
- [2] **Ministry of Education** - Irbid, Jordan (Dec 1990-April 1991)
 - **Job Title:** Computer Teacher.
- [3] **Jordanian Armed Forces** - Jordan (Jan 1989 -- Dec 1990)
 - **Job Title:** Computer System

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

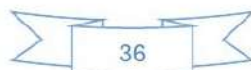
Scopus ID: 33867474800

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ResearchGate: <https://www.researchgate.net/profile/Ali-Alibrahim>

Google Scholar: <https://scholar.google.com/citations?user=QaSivmgAAAAJ&hl=ar>

Specialized IT Courses:



1. VS. Programmers and System Programming, 1991.
2. System Analysis, 1992.
3. UNIX Operating System Administration, 1996.
4. Introduction to UNIX Operating System, 1996.
5. Micro Focus COBOL for UNIX & Micro Focus Tool Box for UNIX, 1996.
6. Activity Network Management, 1997.
7. ORACLE 7 SQL & PL/SQL, 1998.
8. Developer / 2000 Forms 4.5 & Report 2.5, 1998.
9. ORACLE Developer 2000 / Tools Workshops, 1998.
10. ORACLE / Triggers Procedures Packages, 2001.
11. ORACLE / Developer 6.0 Forms I, 2001.
12. ORACLE Developer 6.0 Report I, 2001.
13. ORACLE / Developer 6.0 Forms II, 2001.
14. ORACLE / Developer 6.0 Database Administration (DBA), 2004.
15. PHP workshop 17th of November 2015, Pioneers Academy.
16. Open Educational Courses Trainers, 3-4/ 12/2017, Al-Quds Open University

Human Resources Training Courses and Conferences:

1. Integrated Administrative and Legal Skills in Employee Affairs Management - 28-30/11/2006 Amman
2. Applied Legal Aspects of the Jordanian Labor Law, Work Injuries, and Social Security Law - 26-30/12/2006 Amman
3. Communication Skills at the Level of Individuals, Departments, and Managers for Senior Management Employees - 18-22/01/2007 Amman
4. "How to Become a Successful Manager" for Managers and Senior Management - 18-22/02/2007 Amman
5. Conference: Strategic Planning for Employee Affairs and Administrative Development for Training - 13-15/11/2007 Amman
6. First Arab Conference for Human Resources "Excellence in Human Resources Investment" - 15-16/4/2007 Dead Sea
7. Administrative Decisions - "Their Nature, Types, and Formulation Methods" - 27-29/1/2008 Aqaba
8. Second Arab Conference for Human Resources "Investment in Human Capital as a Competitive Advantage" - 13-14/4/2008 Amman
9. Workshop: "Incentives and Benefits as a Means to Achieve Job Satisfaction" - 17/4/2008 Amman
10. Second Arab Conference for Human Resources and Training "Competitive Advantage through Human Resources" - 18-19/8/2008 Amman
11. Workshop: "Preparing Training Budgets and Measuring Return on Investment in Training" - 17/8/2008 Amman
12. Workshop: "How to Measure Employee Performance" - 20-21/8/2008 Amman
13. Employee Performance Evaluation T.N.A and Return on Investment in Human Resources - 2/2009 Amman
14. "ER - Employee Relations" - 23-27/11/2008 Dubai
15. Legal and Administrative Terminology in Drafting Books - 15-19/3/2009
16. Third Arab Conference for Human Resources - 26-28/4/2009 Amman
17. Workshop: Using psychometric tests in recruitment and development - 29-30/4/2009 Amman

PROFESSIONAL ORGANIZATIONS

- Member of HR Module Development and Training Team
- Member of many university committees
- Member of E-Learning Committee
- Member of University Website Committee
- Member of university Board

HONORS AND AWARDS

None

PUBLICATION LIST

Journal Articles:

- [1] Saleh Abu soud, Ali Al-Ibrahim "DRILA: Distributed Relational Inductive Learning Algorithm" in" World Scientific and Engineering Academy and Society (WSEAS)" Transaction on Computers Journals, 2009.
- [2] Ali Al-Ibrahim "Discretization of continuous attribute in supervised learning algorithm" The Research Bulletin of Jordan ACM. Vol II (IV) December 2011, pp.158-166.
- [3] Ali Al-Ibrahim, Al-Khaldi, R., Ghwanmeh, S., El-Omari, N. and Ababneh, J, "Challenges versus Opportunities in the Implementation of e-Government: a case study, Jordan e-Government Initiative", Far East Journal of Electronics and Communications, ISSN:0973-7006, Vol (8), Issu 2, page 69-83, September-2012, @ Pushpa Publishing House, India.
- [4] Nidhal Kamel Taha El-Omari, Jafar Ababneh, Jamal N. Bani Salameh, Abdel Rahman A. Al karabsheh, Ali Mohammad H. Al-Ibrahim, "Innoviate Text-Image Compression Technique" by European Journal of Scientific Research, ISSN:1450-216X/1450-202X, Vol. 88 No 4 October, 2012, pp.603-616.
- [5] Adel Mohammad, Sameh Ghwanmeh, and Ali Al-Ibrahim "Enhanced Framework for building successful website for informative Companies", International Journal of Computer Applications(IJCA),ISSN:0975-8887, Vol 78, Number 3, page:1-7,September-2013.
- [6] Sameh Ghwanmeh, Adel Mohammad, Ali Al-Ibrahim," "Innovative Artificial Neural Networks-Based Decision Support System for Heart Diseases Diagnosis", Journal of Intelligent Learning Systems and Applications(JILSA), ISSN: 2150-8410, Vol 5, Number 3, page176-183, August 2013.
- [7] Obeidat, Abdel Salam, Ghwanmeh,S, Al-Ibrahim, A, El-Omari, N, and Adel M, "Performance and Effectiveness Examination of the IQE and AQE With Application on Arabic Content", International Journal of Current Engineering and Technology (IJCET), ISSN:2277-4106, Vol 3, Number 3, page:795-797, August 2013.
- [8] Adel Mohammad, Sameh Ghwanmeh, Al-Ibrahim, "Establishing Effective Guidelines to avoid Failure and Reducing Risk in e-Business", International Journal of Current Engineering and Technology(IJCET),ISSN:2277-4106,Vol.4,N0.1,page:28-31,February 2014.
- [9] Jafar Ababneh, Omar Almomani, Wael Hadi, Nidhal Kamel Taha El-Omari, and Ali Al-Ibrahim," Vector Space Models to Classify Arabic Text", International Journal of Computer Trends and Technology (IJCTT), ISSN: 2231-2803-- volume 7 number 4-- Jan 2014.
- [10] Ali Al-Ibrahim,"Strategic Information System Planning for Utilizing the Rejected Potash in the IPP", International Journal of Current Engineering and Technology (IJCET), ISSN:2277-4106, Vol 4, Number 2, page:469-475 ,April-2014.
- [11] Nidhal El-Omari, Ahmed Omari, Ali Al-Ibrahim and Tariq Alwada'n, "Text-Image Segmentation and Compression using Adaptive Statistical Block Based Approach". International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249--8958, Volume-6 Issue-4, April 2017.
- [12] Ali Al-Ibrahim,"Using Sequential Minimal Optimization for Phishing Attack Detection", Modern Applied Science; Vol. 13, No. 5; 2019 ISSN 1913-1844 E-ISSN 1913-1852.

- [13] Ali Al-Ibrahim, " Fuzzy Logic System for Retrieval of Information in Electronic Libraries "Modern Applied Science; Vol.13, No. 11; 2019 ISSN 1913-1844 E-ISSN 1913-1852.
- [14] Ali Al-Ibrahim " Solving Travelling Salesman Problem (TSP) by Hybrid Genetic Algorithm (HGA)", (IJACSA) International Journal of Advanced Computer Science and Applications, Vol. 11, No. 6, 2020.
- [15] Ali Al-Ibrahim " Digital Recognition by Using Chain Code", Far East Journal of Electronics and Communications, 2020 Pushpa Publishing House, Prayagraj, India (accepted).

Conference Articles:

- [1] Ali Al-Ibrahim "E-Government in Jordan: Reality and Ambitions" in the 2006 International on e-learning v e-business, Enterprise Information System, e-Government, & Outsourcing (EEE'06)) Conference Las Vegas, Nevada, USA 26-29 June 2006.
- [2] Ali Al-Ibrahim, "Distributed Relational Inductive Learning system" in 2008 International Conference on Machine Learning; Models, Technologies and Application (MLMTA'08) "Conference Las Vegas, Nevada, USA, July 14-17, 2008.
- [3] Ayoub Sawalha, Ali Ibrahim "Functions and Activities of Logistics Management in Modern Business Organizations " in the first scientific conference of the Faculty of Economics and Business at the Jadara University in cooperation with the Arab Organization for Administrative Development "organizations Distinct Environment Renewable" during the period 25 to 27 July 2011 in Irbid, Jordan.
- [4] Ali Al-Ibrahim, "Continuous Inductive Learning Algorithm (CILA)", The 2011 Conference on Innovations in Computing and Engineering Machinery, (CICEM 2011) Amman, Jordan on 5 Sep 2011.
- [5] Ghwanmeh, S., El-Omari, N., Obeidat, Abdel Salam, Al-Ibrahim, A. and Al-Ta'ee M., "Employing EMIS to Support Participatory Urban Decision-Making System in Jordan", Proc. of the International conference on Green Technology in Engineering and Applied Sciences, Chennai, India, March 2013.

Published Books:

- [1] Ali Al-Ibrahim, "Discrete Mathematics for IT Students" book, 1st edition, 2014, Reference number : (Jordanian national library :466 /1/2014).
- [2] Ali Al-Ibrahim, "Introduction to the Theory of Computation" book, 1st edition, 2015, Reference number : (Jordanian national library :1047 /3/2015).

PROFESSIONAL DEVELOPMENT

I am a Computer Science (and computer information system) Associate Professor (Subspecialty: Artificial Intelligence, Database) with around 30 years of experience in multiple domains of software industry (20 years) including healthcare software, inventory management systems, point of sale systems, and various types of insurance systems and HR models. Throughout my career, I have been to several positions like project manager, team leader, system analyst and designer, IT consultant, HR manager and developer, and managed multiple projects through the full development life cycle from inception all the way to implementation. And most importantly, more than 12 years as a university lecturer in various computer science topics such as: algorithms, requirements of engineering, advanced database management, operation research, discrete math, data structure and algorithms, information retrieval systems, computation theory, E-commerce, Artificial intelligence, VB, computer skills, advanced computer skills.

SERVICE ACTIVITIES (INTERNAL AND EXTERNAL)

Internal:

- Member of HR Module Development and Training Team
- Member of many university committees
- Member of E-Learning Committee
- Member of University Website Committee

- External:**
- Member of university Board
 - Member of HR Module Development and Training Team

TRAINING WORKSHOPS

- VS. Programmers and System Programming, 1991.
- System Analysis, 1992.
- UNIX Operating System Administration, 1996.
- Introduction to UNIX Operating System, 1996.
- Micro Focus COBOL for UNIX & Micro Focus Toolbox for UNIX, 1996.
- Activity Network Management, 1997.
- ORACLE 7 SQL & PL/SQL, 1998.
- Developer / 2000 Forms 4.5 & Report 2.5, 1998.
- ORACLE Developer 2000 / Tools Workshops, 1998.
- ORACLE / Triggers Procedures Packages, 2001.
- ORACLE / Developer 6.0 Forms I, 2001.
- ORACLE Developer 6.0 Report I, 2001.
- ORACLE / Developer 6.0 Forms II, 2001.
- ORACLE / Developer 6.0 Database Administration (DBA), 2004.
- PHP workshop 17th of November 2015, Pioneers Academy.
- Open Educational Courses Trainers, 3-4/ 12/2017, Al-Quds Open University

Faisal Yousef Al-Zyoud

Associate Professor

EDUCATION

Degree	Major	Awarding University	Duration		Country
			From	Year of Awarding	
Ph.D.	Computer Networks	University of Sains (USM)	2006	2011	Malaysia
Master	Information Systems	The Arab Academy for Banking and Financial Sciences	2002	2004	Jordan
BSc	Engineering	University of Jordan	1991	1996	Jordan

ACADEMIC EXPERIENCE (FULL-TIME)

Duration (Years)	University	Position	Main Duties
2015-present	Isra University	Associated Professor	Teaching
2007 - 2015	Faculty of Engineering Technology-Al-Balqa' Applied University	Lecturer	Teaching
2006 - 2009	School of Computer Science University of Sains (USM)	Ph. D Student	Researcher

NON-ACADEMIC EXPERIENCE (FULL TIME)

Duration (Years)	Institution	Job title	Main duties
2018 - 2019	Isra University	Head of Computer Science Department	Teaching & Management
2020 - 2021	Isra University	Head of Computer Science Department	Teaching & Management

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

- Microsoft Certified: Security, Compliance, and Identity Fundamentals

PROFESSIONAL ORGANIZATIONS

None

HONORS AND AWARDS

None

PUBLICATION LIST

Paper title	Journal	ISSN	Volume	Year	Country
Artificial Intelligence in Sports: Enhancing Athlete Performance and Injury Prevention	International Journal of Advanced and Applied Sciences	2313-626X	13, 12	2026	Taiwan
A powerful machine learning method for detecting phishing threats	Bulletin of Electrical Engineering and Informatics	2302-9285	14,6	2025	Indonesia
Path Selection Optimization Algorithms for Mobile Agent Based on Push-All-Data Strategy	International Journal of Interactive Mobile Technologies	1865-7923	19, 10	2025	Germany
PREDICTING DAILY RIVER FLOW USING LONG SHORT-TERM MEMORY (LSTM): A DEEP LEARNING APPROACH	Journal of Theoretical and Applied Information Technology	1992-8645	102, 23	2024	Pakistan
OPTIMIZING ENERGY EFFICIENCY IN WIRELESS AD HOC NETWORKS FOR DISASTER MANAGEMENT: A NOVEL BROADCAST APPROACH FOR PROLONGED SENSOR LIFE	Journal of Theoretical and Applied Information Technology	1992-8645	102, 18	2024	Pakistan

Optimizing Broadcast Utilization for Efficient Disaster Management Using Wireless Ad Hoc Networks and Novel Energy-Saving Algorithms.	International Journal of Interactive Mobile Technologies	1865-7923	18, 20	2024	Germany
A New Approach for Cluster Head Selection in Wireless Sensor Networks.	International Journal of Online & Biomedical Engineering	2626-8493	20, 9	2024	Austria
Rainfall Prediction Using Deep Learning Algorithms	Journal of Electrical Systems (JES)	1112-5209	20, 7s France	2024	France
Speech Recognition Utilizing Deep Learning: A Systematic Review of the Latest Developments	HUMAN-CENTRIC COMPUTING AND INFORMATION SCIENCES	2192-1962	14	2024	South Korea
Properties for Certain Class of p- Valent Functions Related to Jackson's Operator (Sifat bagi Kelas Fungsi Tertentu Valen - p yang Berkaitan dengan Pengoperasi Jackson	Sains Malaysiana	231-238	53	2024	Malaysia
Improved model for traffic accident management system using KDD and big data: case study Jordan	INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL	1841-9844	18, 3	2023	Romania

The use of facial expressions in measuring students' interaction with distance learning environments during the	Visual informatics	2543-2656	7, 1	2023	Netherlands
Toward Smart and Immersive Classroom based on AI, VR, and 6G	International Journal of Emerging Technologies in Learning (iJET)	1863-0383	18, 2	2023	Austria
Towards Virtual University based on Virtual Reality and Terabits Internet Speed.	International Journal of Emerging Technologies in Learning (iJET)	1863-0383	17, 24	2022	Austria
Adaptive Smart Traffic Accidents Management System	International Journal of Interactive Mobile Technologies	1865-7923	15	2021	Germany
A Semi Smart Adaptive Approach for Trash Classification	International Journal of Computers Communications & Control	1841-9844	16	2021	Romania
Answer Set Program and Stanford Dependency Parser toward translating Text to Knowledge Representation	Journal of Theoretical and Applied Information Technology	1992-8645	99	2021	Pakistan
Enhanced Cognitive Radio Network Approach with an Effective Authentication Algorithm	ICIC Express Letters, An International Journal of Research and Surveys	1881-803X	15	2021	Japan

Machine Learning and Answer Set Program Rules towards Traffic Light Management	International Journal of Advanced Trends in Computer Science and Engineering	2278-3091	9	2020	India
Mathematical Model for Comparing Performance Evaluation of Mobile Agents Platforms	Journal of Theoretical and Applied Information Technology-JATIT	1992-8645	98	2020	Pakistan
Best Practice Fundamentals in Smart Grids for a Modern Energy System Development in Jordan	International Journal of Advances in Computer Science & Its Applications – IJCSIA	2250-3765	9	2019	USA
A Comprehensive Survey on Node Metrics of RPL Protocol for IoT	Modern Applied Science	1913-1844	13	2019	Canada
Smart Accident Management in Jordan using CupCarbon Simulation	European Journal of Scientific Research	1450-216x	152	2018	England
A Proposed Hybrid Approach Combined QoS with CR System in Smart City	Eurasian Journal of Analytical Chemistry	1306-3057	13	2018	Turkey
Securitizing Big Data Characteristics Used Tall Array and Map Reduce	Journal of Computational and Theoretical Nano science	2227-524X	7	2018	UAE
Smooth Handoff Process Cluster Based in Vehicular Ad Hoc Networks	International Journal of Computing Academic Research (IJCAR)	2305-9184	6	2017	England

Determining Minimum Cost Field in Vehicle AD-Hoc Sensor Networks	International Journal of Computing Academic Research (IJCAR)	2305-9184	6	2017	England
The Classification Filter Techniques by Field of Application and the Results of Output	Australian Journal of Basic and Applied Sciences	1991-8178	13	2016	Australia
Cloud Computing Security Enhancement by Using Mobile PIN Code	Journal of Computers (JCP)	1796-203X	11	2016	USA
A Moderated Distance Based Broadcasting Algorithm for MANETs	International Journal of Computer and Communication Engineering (IJCCE)	2010-3743	3	2014	USA
A Comparison Study of Common Routing Protocols used in Wireless Ad-Hoc Networks	Research Journal of Applied Sciences, Engineering and Technology	2040-7467	5	2013	USA
The effect of using P-XCAST routing protocol on many-to-many applications	International Arab Journal of Information Technology (IAJIT)	1683-3198	9	2012	Jordan
A New Technique for Location of Fault Location on Transmission Lines	Modern Applied Science	1913-1844	4	2010	Canada

Conference Papers

Scope	Name	Organizer	Date	Country
Artificial Intelligence	International Conference on Breakthroughs in Artificial Intelligence	Springer Nature Switzerland	2026	Tunis
Water and Food Security	International Conference Water and Food Security in the Face of Climate Change: Challenges and Opportunities for Resilience	Springer Nature Switzerland	2025	Qatar
Intelligent Computing	Second International Conference on Advances in Computing Research	Springer Nature Switzerland	2024	Spain
Intelligent Computing	Computing Conference 2023	Springer Nature Switzerland	2023	United Kingdom
Emerging Trends in Computing and Engineering Applications	2022 International Conference on Emerging Trends in Computing and Engineering Applications (ETCEA)	IEEE	2022	Jordan
Information Technology (ACIT)	2022 International Arab Conference on Information Technology (ACIT)	IEEE	2022	United Arab Emirates
Learning and Analytics in Intelligent Systems	Intelligent Computing Paradigm and Cutting-edge Technologie. ICICCT 2019.	Springer, Cham.	2019	Turkey
Communications and Signal Processing	ICICS 2009	IEEE	2009	China
Digital Object Identifier	TENCON 2009	IEEE	2009	Singapore
Digital Object Identifier	TENCON 2009	IEEE	2009	Singapore
Digital Object Identifier	APC15	IEEE	2009	China

PROFESSIONAL DEVELOPMENT

None

SERVICE ACTIVITIES (INTERNAL AND EXTERNAL)

None

TRAINING WORKSHOPS

None

Amaal Mohammed Al-Amawi

Associate Professor

EDUCATION

- **Ph.D.** in Performance Analysis in an Integrated Network, The Arabian Academy for Finance and Banking Sciences, Jordan, 2008.
- **M.Sc.** in Information Systems, The Arabian Academy for Finance and Banking Sciences, Jordan, 2001.
- **B.Sc.** in Computer Science, The Jordanian University, Jordan, 1992.

ACADEMIC EXPERIENCE (FULL-TIME)

- **2024–Present (2026):** Associate Professor, Department of Computer Information Systems, Faculty of Information Technology, Isra University, Amman, Jordan.
- **2022–2024:** Associate Professor, Department of Management Information Systems, Faculty of Business, Isra University, Amman, Jordan.
- **2009–2022:** Assistant Professor, Department of Management Information Systems, Faculty of Business, Isra University, Amman, Jordan.
- **2002–2009:** Instructor, Department of Management Information Systems, Faculty of Business, Isra University, Amman, Jordan.

NON-ACADEMIC EXPERIENCE (FULL TIME)

None

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

None

PROFESSIONAL ORGANIZATIONS

None

HONORS AND AWARDS

None

PUBLICATION LIST

1. “Anomaly Detection in the BETH Dataset Using Bi-LSTM for Cybersecurity.” International Conference on Business Intelligence for Technology Innovation (BiTi '25), April 16–18, 2025.
2. “Open Metaverse Gate: How Marketing Strategies Shape-Shifted After the AI Invasion.” International Conference on Innovation for Emerging Technologies (ICIET 2025).
3. “The Readiness of Communication Technologies for Effective Online Learning amid the COVID-19 Pandemic.” *Wireless Personal Communications*, published May 6, 2024. DOI: [10.1007/s11277-023-10757-x](https://doi.org/10.1007/s11277-023-10757-x).
4. “Digital Marketing and the Impact of Social Media on Achieving Positive Expectations.” 2024 2nd International Conference on Cyber Resilience (ICCR), February 26–28, 2024. DOI: [10.1109/ICCR61006.2024](https://doi.org/10.1109/ICCR61006.2024).
5. “The Role of E-Marketing in Building Corporate Image in Real Estate Development Companies and Its Impact on Sales Volume.” International Conference on Innovation for Emerging Technologies (ICIET 2025).

6. **“Impact of Cryptocurrency Regulations and FinTech on the Growth of Innovations.”**
2nd International Conference on Business Analytics for Technology and Security (ICBATS-2 2023).

SERVICE ACTIVITIES (INTERNAL AND EXTERNAL)

Internal Service — Isra University, Amman, Jordan

- Member, Quality Committee, Department of Computer Information Systems.
- Member, Curriculum and Effectiveness Measurement Committee, Department of Computer Information Systems.
- Head, Department of Management Information Systems, 2013–2019.

TRAINING WORKSHOPS

None

Feras Mohammed Al-Matarneh

Associate Professor

EDUCATION

- **2008-Ph. D** in Networks & Processing of Data Systems- Saint Petersburg.
- **1996-M. SC** in Electrical Engineering/ Electronics Computer - Saint Petersburg.
- **1995- B. SC** in Electrical Engineering / Electronics Computer – Saint Petersburg.
- **1989-High School:** General Secondary School Certificate-Jordan.

ACADEMIC EXPERIENCE (FULL-TIME)

2023-until now: Associate Prof. Department of Computer Science at Tabuk University/ college
Duba

NON-ACADEMIC EXPERIENCE (FULL TIME)

Al-shareq Company, Jordan From 1996 - 2002

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

CCNA – CCNA Security – CCNA Voice – CCNP – OCA – IBM DB2 - AWS

PROFESSIONAL ORGANIZATIONS

Cisco – Oracle – IBM -

HONORS AND AWARDS

None

PUBLICATION LIST

- [1] Feras Matarneh , Automated Handwriting Recognition and Speech Synthesizer for Indigenous Language Processing. Computers, Materials & Continua Tech Science Press DOI: 10.32604/cmc.2022.026531. CMC, 2022, vol.72, no.2.
- [2] Feras Matarneh , Swarm Intelligence with Adaptive Neuro-Fuzzy Inference System-Based Routing Protocol for Clustered Wireless Sensor Networks. Hindawi Computational Intelligence and Neuroscience Volume 2022, Article ID 7940895, 11 pages <https://doi.org/10.1155/2022/7940895>.
- [3] Feras Matarneh , Investigating The Network Characteristics Of Two Popular Web-Based Video Streaming Sites European Scientific Journal ESJ vol. 13 No.25 No.26 No.27, sep.2017
- [4] Feras Matarneh, "Improving the Authentication Mechanism of Business to Consumer (B2C) Platform in a Cloud Computing Environment: Preliminary Findings" European Scientific Journal, ESJ vol. 13 No.16 No.17 No.18, June 2017
- [5] Feras Matarneh, Rami Matarneh Enhancing Fault-Tolerance in Ring Topology Based on Waiting Queue and Timestamp. International Journal of Computer Trend and Technology, volume 43 number 2-January 2017
- [6] Feras Matarneh, moharep smadi the effect of teaching post-graduate student curriculum teaching courses on their acquisition of electronic design /Tabuk University, 2015.
- [7] Feras Matarneh, Rami Matarneh Virtual channel switching model to simulate switching network .European Journal of Scientific Research ISSN 1450-216x / 1450-202x January, 2015
- [8] Adnan I. Al Rabea, Feras Almatarneh, Basim Alhadidi, The methods of synthesis of multilevel circuits of compositional micro program control units. The 2010 International Conference on Mechanical and Aerospace Engineering (ICMAE 2010) -1 - Notification of Acceptance of the ICMAE 2010 November 26-28, 2010, Kuala Lumpur, Malaysia.
- [9] Matarneh, F. Traffic Control in The Centre of Conjunction of Heterogeneous Networks. International Journal of Computer Science and Network Security. 10 2010, 337-342.
- [10] Kutuzov, O.I. Choosing structure nodes network, ecology monitoring system / OI Kutuzov, AA Kuznetsova, F. Matarneh / / International conference "Instrumentation in ecology and human

safety" (The choice of network structure in the system of ecological monitoring). St. Peter b., 31.jan. -- 02.feb. 2007. -- SPb. 2007. - P. 91-93

- [11] Matarnch, F. The concept of distributed simulation based on the model of parallel computing SPMD / F. Matarnch // analysis and forecasting systems management: Trudy 8 - and mezhdunar. Scientific practical. Conf. young scientists, students and graduate students. - St. Petersburg.: Izd of SZTU - 2007. -- S.174-177
- [12] Kutuzov, OI The concept of network system for environmental monitoring / OI Kutuzov, S. Amari, F. Matarnch // Izvestia SPb GETU "LETI". Ser. "Computer science, management and computer technology". -- 2006. - № 2. -- S. 31-34
- [13] Kutuzov, OI Statistical estimation network connectivity / OI Kutuzov, F. Matarnch // Automation, informatization, innovation in transport systems: Sat. scientific-technical. Articles. -- St. Petersburg.: SPGUVK. 2006. - Vyp.1. - S. 27-32.
- [14] Matarnch, F. approach to the calculation of productivity LAN / A. Matarnch, S. Amari // Technical means of navigation and communication at sea and inland waterways: Internet mezhvuz. Sat. science. Works / Ed. AA Sikareva - St. Petersburg, SPGUVK - Shipbuilding, 2006. Vol. 7 - s.103 -108
- [15] Kutuzov, OI Model connections to the network / OI Kutuzov, DI Starchak, F. Matarnch // Problems of training in the field of in focomm technology: Proceedings of scientific practical. Conf.; Saint Peters., 1-3 March 2005: - Saint Petersburg.: SPOISU, 2005 - S. 91-

PROFESSIONAL DEVELOPMENT

- Cloud Computing.

Amazon Web Services (AWS) Certified Solutions Architect –

SERVICE ACTIVITIES (INTERNAL AND EXTERNAL)

Internal Service (University & Department)

- Departmental Committees: Active member of the College of Information Technology's Curriculum Development Committee at Isra University. Contributed to the revision and alignment of undergraduate courses in Network Security and Cloud Computing with current industry standards (2024–Present)
- Laboratory & Infrastructure Development: Spearheaded the design and setup of the university's advanced networking and cybersecurity lab, configuring enterprise-grade equipment (Cisco ASAs, Nexus switches, and VMware ESXi environments) for hands-on student training (2024–Present)
- Student Advising & Mentorship: Academic advisor for undergraduate students in the College of Information Technology, providing guidance on course selection, career pathways in Blockchain and AI, and final-year capstone projects

External Service (Professional & Community)

- Industrial Collaboration & Consulting: Served as a subject matter expert for government-sector IT security projects, leveraging experience as an IT Consultant for the Ministry of Defense (Egypt). Provided advisory services on secure routing protocols and data center infrastructure (ongoing via Isra University partnerships)
- Professional Development & Training: Delivered specialized external training sessions on "Next-Generation Firewalls and Network Security" for industry professionals and government entities in Jordan and Egypt
- Technical Reviewer/Jury: Served as an external evaluator for local and regional IT project competitions, assessing the technical feasibility and innovation of student-developed applications in IoT and Cybersecurity
- Continuing Education (for Service): Mentored junior faculty and lab engineers in installing and administering Red Hat Linux, Oracle RAC clusters, and virtualization environments to improve departmental IT support capacity

TRAINING WORKSHOPS

None

Hegazi F. Ibrahim

Associate Prof.

Associate Dean for Quality Affairs

EDUCATION

- **Ph.D., In philosophy in Engineering, Electric Communications Engineering, Oct. 2018 Mansoura University, Egypt.**
"Quality of Access Optimization for Streaming Multimedia Over Wireless Networks"
- **M.Sc., in Engineering, in Electrical Communication Engineering, Feb.2014, Faculty of Engineering.** " Improving QoS for IPTV based WiMAX"
- **B.Sc., in Electronics and Communications Engineering, July 2010, Faculty of Engineering, Mansoura University, Mansoura, Egypt.**

ACADEMIC EXPERIENCE (FULL-TIME)

- **Associate Professor & Associate Dean for Quality Affairs,** College of Information Technology, Isra University - Amman, Jordan, March 2025 - **Present**
- **Assistant Professor - Computer Science, Head of Quality Assurance Unit** Egyptian Chinese University (ECU), Faculty of Computers and Information Systems - Cairo, Egypt, **September 2024 - March 2025**
- **Assistant Professor & Head of ABET and Quality Assurance Unit**
Associate Dean for Quality Affairs, Head of Communications and Electronics Engineering Department
Nile Higher Institute for Engineering and Technology - Mansoura, Egypt
October 2019 – September 2024
- **Lecturer** at Electrical Eng. Dept., Faculty of Eng., Jouf University, Sakaka, KSA. Sep. 2016 – 2021
- **Assistant Professor** at Electrical Communication Engineering Department of Communications and Electronics, Nile Higher Institution of Engineering and Technology, Mansoura, Egypt. 2018.
- **Teaching Assistant** at Electrical Communication Engineering Department of Communications and Electronics, Nile Higher Institution of Engineering and Technology, Mansoura, Egypt. 2016.
- **Instructor** at Electric power Eng. Dept., Higher institution of engineering and technology in New Damietta. Sep. 2010 – May 2014.

ACADEMIC EXPERIENCE (PART - TIME)

- **Assistant Professor - AI Engineering Program**
Faculty of Engineering, Mansoura University - Mansoura, Egypt
2024 - 2025
- **Assistant Professor - Computer and Control Engineering**
Faculty of Air Défense, Egyptian Military Academy - Cairo, Egypt
2024 – 2025
- **Assistant Professor - Computer Science Department**
Quality Assurance Consultant
Faculty of Computer Science, Nahda University - Beni-Suef, Egypt
February 2024 - August 2024.

NON-ACADEMIC EXPERIENCE (FULL TIME)

- Site engineer and supervisor of designs for the communication stations of both:
- AIRTEL Indian Company (Nairobi - Kenya) in the period from 25/1/2012 to 25/2/2012.
- NEC Corporation of Japan (Lusaka - Zambia) in the period from 1/3/2012 to 25/4/2012.

- Company MTN (Johannesburg - Cape Town - South Africa) in the period from 1/5/2012 to 5/6/2012.

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

- **Site engineer and supervisor** of designs for the communication stations of both:
- **AIRTEL Indian Company** (Nairobi - Kenya) in the period from **25/1/2012 to 25/2/2012**.
- **NEC Corporation of Japan** (Lusaka - Zambia) in the period from **1/3/2012 to 25/4/2012**.
- **Company MTN (Johannesburg - Cape Town - South Africa)** in the period from **1/5/2012 to 5/6/2012**.

PROFESSIONAL ORGANIZATIONS

- Jouf University, Sakaka, KSA.
- NEC COOPERATION (Kenya)
- MTN COMPANY (South Africa)
- ZANTEL COMPANY (Zambia)
- AIRTEL COMPANY (MALAWY)

HONORS AND AWARDS

- Jouf university award in scientific research and quality of publication 2017.
- Deanship of Quality and Accreditation - Jouf University - KSA -May 2021
- A certificate of thanks and appreciation as a quality coordinator for the effective and sincere participation that contributed to the electrical engineering program obtaining full academic and program accreditation from the national ETEC for the period from May 2021 until April 2028
- Deanship of Quality and Accreditation - Jouf University – KSA-Sep 2022 - Present
- A certificate of thanks and appreciation as a quality Coordinator for the effective and sincere participation in meeting the requirements of institutional accreditation, which contributed to the university's obtaining full institutional accreditation for the period from May 2021 until April 2028
- Deanship of Quality and Accreditation - Jouf University- KSA -May 2021
- A certificate of thanks and appreciation as a quality coordinator for the effective and sincere participation that contributed to the electrical engineering program obtaining full academic and program accreditation from the ABET for the period from October 2020 until September 2026.
- Certificate of Honor from the President of Al-Jouf University in the Kingdom of Saudi Arabia - May 2021
- Al-Jouf University extends its thanks and appreciation for the sincere and effective efforts within the work teams to fulfill the requirements for academic and program accreditation until obtaining full accreditation from the ETEC from May 2021 until April 2028.

PUBLICATION LIST

1. Elngar, A.A. *et al.* (2026). Energy-Informatics Driven Self-Calibrating TDMA Algorithm for Energy-Efficient and Reliable Wireless Body Sensor Networks (WBSN). In: Jørgensen, B.N., Ma, Z.G., Yussof, S. (eds) Energy Informatics. EIA 2025. Lecture Notes in Computer Science, vol 16394. Springer, Cham.

https://doi.org/10.1007/978-3-032-19137-3_3

2. Ibrahim, H.M., Shiha, M.M., Nasr, M.E. *et al.* Improving QoS for streaming data transmission over 6G networks using reconfigurable intelligent surfaces (RIS). *Sci Rep* **16**, 4828 (2026). <https://doi.org/10.1038/s41598-025-31131-w>
3. H. M. Ibrahim, A. Hammad, A. A. Elngar and A. Ibrahim, "Adaptive Edge-Based Thresholding for Robust ORB Keypoint Detection Under Varying Illumination," 2025 3rd International Conference on Cyber Resilience (ICCR), Dubai, United Arab Emirates, 2025, pp. 1-8, doi: [10.1109/ICCR67387.2025.11291778](https://doi.org/10.1109/ICCR67387.2025.11291778).
4. Hegazi Ibrahim and Mohamed Elmowafy, "Optimizing Video Streaming Over 6G Networks: Codec Adaptation, Quality Metrics, and AI-Driven Topologies", 2025 International Telecommunications Conference (ITC-Egypt), [10.1109/ITC-Egypt66095.2025.11186616](https://doi.org/10.1109/ITC-Egypt66095.2025.11186616), pp 265-272, July 2025.
5. H. A. Sakr, M. I. El-Afifi, M. A. El-Mowafy, and H. M. Ibrahim, "Detecting DDoS threats in IoT-driven 6G-energy hubs networks using machine learning algorithms," Discover Applied Sciences, vol. 7, Art. no. 1002, Aug. 2025. DOI: <https://doi.org/10.1007/s42452-025-06716-9>
6. A. A. Farid, A. T. Khalil, A. S. Samrah, and H. M. Ibrahim, "Optimizing WSN Security: An Advanced ML-Driven Intrusion Detection System with SMOTE-Tomek," Int. J. Telecommunications., vol. 5, no. 1, pp. 1–28, 2025. DOI: [10.21608/ijt.2025.375264.1100](https://doi.org/10.21608/ijt.2025.375264.1100)
7. Elassy, A. M., Amer, H. M., Ibrahim, H. M., and Mohamed, M. A., "Elevating Alzheimer's Diagnosis Based on Attention-Guided MRI Feature Fusion," International Journal of Telecommunications, Air Defense College, IJT'2025, Vol. 05, Issue 01, pp. 01-20, 2025. DOI: [10.21608/ijt.2025.350559.1075](https://doi.org/10.21608/ijt.2025.350559.1075)
8. Hegazi Ibrahim, Abdelmoty M. Ahmed, Belgacem Bouallegue, Mahmoud M. Khattab, Mohab Abd El-Fattah, Nesma Abd El-Mawla, "Deep Convolutional Neural Networks for Plant Disease Detection: A Mobile Application Approach (Agri Bot)", International Journal of Intelligent Systems, Vol. 2025, Issue 01, pp. 1-19, 2025. (DOI: [10.1155/int/7644404](https://doi.org/10.1155/int/7644404)).
9. Hesham A. Sakr, Abdelfattah A. Eladl, Hegazi M. Ibrahim, and Magda I. El-Afifi, "Application of Machine Learning Techniques for Predicting False Data Injection Attacks in Smart Grid," 25th International Middle East Power Systems Conference (MEPCON 2024), Cairo, Egypt, December 2024. [DOI: [10.1109/MEPCON63025.2024.10850048](https://doi.org/10.1109/MEPCON63025.2024.10850048)]
10. Ibrahim, H. M., Khalil, A. T., & Sakr, H., "Enhancing the Quality of Multimedia Streaming Over Radio Resource Management and Smart Antennas of 5G Networks," Wireless Personal Communications, 2024. [DOI: [10.1007/s11277-024-11609-y](https://doi.org/10.1007/s11277-024-11609-y)]
11. Nesma Abd El-Mawla, and Hegazi Ibrahim, "AI-Powered 5G Networks: A Roadmap for the Future of Wireless Communications," Nile Journal of Communication and Computer Science, Vol.7, June 2024, pp. 1-14. [DOI: [10.21608/njccs.2024.360125](https://doi.org/10.21608/njccs.2024.360125)]
12. Nesma Abd El-Mawla, and Hegazi Ibrahim, "A Comparative Study of Simulation Tools for WSNs and UWSNs Research," Nile Journal of

- Communication and Computer Science, Vol.7, June 2024, pp. 1-16. [\[DOI: 10.21608/njccs.2024.268550.1029\]](https://doi.org/10.21608/njccs.2024.268550.1029)
13. A.M. EL-ASSY, Hanan M. Amer, H.M. Ibrahim, M.A. Mohamed, "A Novel CNN Architecture for Accurate Early Detection and Classification of Alzheimer's Disease Using MRI Data," Scientific Reports, Feb. 2024, pp. 1-19. [\[DOI: 10.1038/s41598-024-53733-6\]](https://doi.org/10.1038/s41598-024-53733-6)
 14. A. A. Farid, A. T. Khalil, M. A. Shawky, A. S. Samrah, and H. Ibrahim, "Optimized Performance of Attack Detection in WSN Based on Machine Learning Algorithms," International Telecommunication Conference (ITC-Egypt 2023), Alexandria, Egypt, 2023, pp. 407-412. [\[DOI: 10.1109/ITC-Egypt58155.2023.10206348\]](https://doi.org/10.1109/ITC-Egypt58155.2023.10206348)
 15. H. Ibrahim and N. A. El-Mawla, "Sustainable Internet of Things (S-IoT) With 5G Smart Antennas for Smart Media Data Services," 32nd International Conference on Computer Theory and Applications (ICCTA 2022), Alexandria, Egypt, 2022, pp. 155-161. [\[DOI: 10.1109/ICCTA58027.2022.10206331\]](https://doi.org/10.1109/ICCTA58027.2022.10206331)
 16. Sakr, H. A., Ibrahim, H. M., & Khalil, A. T., "Impact of Smart Power Efficient Modes on Multimedia Streaming Data Beyond 5G Networks," Wireless Personal Communications, Vol. 125, pp. 699-735, 2022. [\[DOI: 10.1007/s11277-022-09573-6\]](https://doi.org/10.1007/s11277-022-09573-6)
 17. Nesma Abd El-Mawla, Hegazi Ibrahim, and AI Nile Research Lab, "Eco-Friendly Dehydrator Machine for Food Recycling: A Waste Management System," Nile Journal of Communication and Computer Science, Vol.4, No.1, December 2022, pp. 1-18. [\[DOI: 10.21608/njccs.2024.360125\]](https://doi.org/10.21608/njccs.2024.360125)
 18. Hegazi Ibrahim, Nesma Abd El-Mawla, and AI Nile Research Lab, "IoT-Enabled Smart Grid Using PV Panel," Nile Journal of Communication and Computer Science, Vol.4, No.1, December 2022, pp. 1-18. [\[DOI: 10.21608/njccs.2022.279508\]](https://doi.org/10.21608/njccs.2022.279508)
 19. Nesma Abd El-Mawla, Hegazi Ibrahim, and Green Team, "Green Cloud Computing (GCC), Applications, Challenges, and Future Research Directions," Nile Journal of Communication and Computer Science, Vol.2, No.1, February 2022, pp. 1-12. [\[DOI: 10.21608/njccs.2022.244471\]](https://doi.org/10.21608/njccs.2022.244471)
 20. Hegazi Ibrahim, Nesma Abd El-Mawla, and Green Team, "Proposed Model for Sustainable and Scalable Vertical Farm," Nile Journal of Communication and Computer Science, Vol.2, No.1, February 2022, pp. 1-11. [\[DOI: 10.21608/njccs.2022.244469\]](https://doi.org/10.21608/njccs.2022.244469)
 21. Samrah, A. S., Khalil, A. T., and Ibrahim, H. M., "Improving Quality of Service for Internet Protocol Television and Voice Over Internet Protocol Over Long-Term Evolution Networks," International Journal of Communication Networks and Distributed Systems (IJCNDs), Vol.22, No.4, pp. 409-446, 2019. [\[DOI: 10.1504/IJCNDs.2019.099965\]](https://doi.org/10.1504/IJCNDs.2019.099965)
 22. M. A. Mohamed and H. Ibrahim, "Studying the Performance of Streaming Data Over LTE-A Networks Based on HARQ Mechanism," International Journal of Scientific and Engineering Research (IJSER), Vol. 9, No. 2, pp. 1289-1297, 2018.
 23. M. A. Mohamed and H. F. Ibrahim, "Performance Evaluation for Video Streaming Data Over LTE-A Networks," 12th International Conference on

- Computer Engineering and Systems (ICCES 2017), IEEE Xplore Digital Library, pp. 701- 707, 2017. [DOI: [10.1109/ICCES.2017.8275396](https://doi.org/10.1109/ICCES.2017.8275396)]
24. M. A. Mohamed, M. Zubair, and H. M. Ibrahim, "QoS-Based IPTV Over Mobile WiMAX Networks," *Wireless Personal Communications* (Springer), Vol. 96, No. 2, pp. 1711–1740, 2017. [DOI: [10.1007/s11277-017-4264-6](https://doi.org/10.1007/s11277-017-4264-6)]
 25. M. A. Mohammed, and Hegazi Ibrahim, "QoS Optimization for Multimedia Streaming Using Hybrid RRM and DASS Over LTE Networks," *Second Euro-China Conference on Intelligent Data Analysis and Applications (ECC 2015)*, Ostrava, Czech Republic, July 29-31, 2015, pp. 305-318.
 26. M. A. Mohammed, M. A. Abou-Elsoud, and H. Ibrahim, "Effect of WiMAX Networks on IPTV Technology," *IJCSI International Journal of Computer Science Issues*, Vol. 10, Issue 6, No.2, pp. 235-243, November 2013.
 27. M. A. Mohamed, Mohey E. Abou-Elsoud, and Hegazi Ibrahim, "Improving QoS for IPTV Over WiMAX Networks," *IEEE Transactions on Networking*, 23rd ICCTA, Alexandria, ID 48_2, Vol.12, Issue 8, pp. 96-101, 2013. [DOI: [10.1109/ICCTA32607.2013.9529804](https://doi.org/10.1109/ICCTA32607.2013.9529804)]

PROFESSIONAL DEVELOPMENT

Internal Service — Jouf University, Saudi Arabia

- Member, Quality Assurance Committee for Institutional and Program Accreditation, academic years 2016/2017–2020/2021.
- Member, Laboratories Committee, academic years 2016/2017–2020/2021.
- Member, Institutional Strategic Plan Committee and the Executive Plan Implementation and Follow-up Committee for the Electrical Engineering Program, academic years 2016/2017–2020/2021.
- Member, NCAAA Program Accreditation Committee and Supervisor of Standards 1 and 2 for the Electrical Engineering Program, academic years 2018/2019–2020/2021.
- ABET Coordinator, Electrical Engineering Department, 2017–2021.
- Member, Academic Affairs Committee, academic years 2016/2017 and 2017/2018.
- Member, Graduation Projects Committee, academic years 2016/2017 and 2017/2018.

SERVICE ACTIVITIES (INTERNAL AND EXTERNAL)

- **ABET Accreditation Leadership:** Secured full ABET accreditation for multiple engineering and computer science programs through comprehensive program development and quality assurance
- **NAQAAE Accreditation:** Led institutional accreditation process for Nile Higher Institute for Engineering and Technology (July 2023 - July 2028)
- **Program Development:** Led course design, academic reporting, CLO-SO mapping, and curriculum alignment for Communication and Electronics Engineering programs
- **Quality Assurance Expert:** Served as Head of ABET and Quality Assurance Unit, implementing outcomes-based education and continuous improvement systems
- **Accreditation Consultant:** Provided strategic advisory services to multiple institutions on international accreditation standards and quality assurance frameworks

TRAINING WORKSHOPS

1. **Research Ethics**
University Development Center (UDC), Mansoura University | August 24–25, 2025 | 10 Hours
2. **Statistical Analysis Skills**
University Development Center (UDC), Mansoura University | August 17–18, 2025 | 10 Hours

3. **Cyber Security**
University Development Center (UDC), Mansoura University | August 5–6, 2025 | 10 Hours
4. **Exams and Students Evaluation Systems**
University Development Center (UDC), Mansoura University | July 20–21, 2025 | 10 Hours
5. **Scientific Research and Methods of Universities Rankings**
University Development Center (UDC), Mansoura University | July 15–16, 2025 | 10 Hours
6. **Credit Hours System**
University Development Center (UDC), Mansoura University | July 8–9, 2025 | 10 Hours
7. **Teaching Strategies and Active Learning for Colleges and Higher Education Institutes**
NAQAAE, Egypt | December 6–7, 2023
8. **External Review for Colleges and Higher Education Institutes**
NAQAAE, Egypt | December 19–21, 2023
9. **Examination Systems and Student Assessment for Colleges and Higher Education Institutes**
NAQAAE, Egypt | December 13–14, 2023
10. **Program and Course Description and Learning Outcomes Assessment for Colleges and Higher Education Institutes**
NAQAAE, Egypt | November 28–30, 2023
11. **Self-Evaluation for Colleges and Higher Education Institutes**
NAQAAE, Egypt | November 21–23, 2023
12. **Strategic Planning for Colleges and Higher Education Institutes**
NAQAAE, Egypt | November 15–16, 2023
13. **Designing Electronic Surveys and Questionnaires**
Academic Skills Development Center, Jouf University | March 3, 2021 | 2 Accredited Hours
14. **Statistical Analysis Using SPSS**
Academic Skills Development Center, Jouf University | March 1, 2021 | 2 Accredited Hours
15. **Managing and Organizing Scientific References Using RefWorks**
Academic Skills Development Center, Jouf University | February 23, 2021 | 2 Accredited Hours
16. **Developing Critical Thinking in Distance Learning**
Academic Skills Development Center, Jouf University | February 3, 2021 | 2 Accredited Hours
17. **Formative Assessment**
Academic Skills Development Center, Jouf University | November 24, 2020 | 2 Accredited Hours
18. **Quality Standards in E-Course Design**
Academic Skills Development Center, Jouf University | September 9, 2020 | 2 Accredited Hours
19. **Key Performance Indicators for Academic Programs**
Academic Skills Development Center, Jouf University | August 17–18, 2020 | 4 Accredited Hours
20. **Electronic Archiving and Writing of Scientific References**
Academic Skills Development Center, Jouf University | February 6, 2020 | 4 Accredited Hours
21. **Modern Trends in Higher Education**
Academic Skills Development Center, Jouf University | February 5, 2020 | 4 Accredited Hours
22. **Using Technology in Teaching**

- Academic Skills Development Center, Jouf University | February 4, 2020 | 4 Accredited Hours
- 23. Scientific Publication Mechanism in ISI Journals**
Academic Skills Development Center, Jouf University | August 29, 2019 | 4 Accredited Hours
- 24. Research Methodology**
Academic Skills Development Center, Jouf University | August 28, 2019 | 4 Accredited Hours
- 25. IPASOLINK 200/400/1000 Operation & Maintenance**
NEC Corporation | October 24–28, 2011
- 26. CDMA & UMTS Advanced Course**
JELECOM Egypt / Mansoura University, Faculty of Engineering | August 18 – September 18, 2009
- 27. GSM & GPRS Advanced Course**
JELECOM Egypt / Mansoura University, Faculty of Engineering | July 14 – August 14, 2009

Tamer Y. Abukhalil

Associate Professor in data science and artificial intelligence

Academic Rank

EDUCATION

Doctor of Philosophy in Computer Science and Engineering

University of Bridgeport, CT, USA Dec 2014

GPA: 3.7

Master of Computer Applications

Bangalore University, Bangalore, India June 2007

GPA: 3.43 (First Class – Very Good)

Bachelor of Computer Science

Al-albays University, Mafraq, Jordan June 2003

GPA: 77.3

ACADEMIC EXPERIENCE (FULL-TIME)

- Associate Professor
Isra University | Amman, Jordan October 2025 – Present
- Al-hussein Bin Talal University | Ma'an, Jordan 2015 – August 2025
 - Worked as head of the department of computer science.
 - Lead and prepare lectures for undergraduate courses.
 - Provided guidance in building new research teams.
 - Advised undergraduate students on their curriculum management and professional career objectives.
 - Held fortnightly meetings with graduation groups to check the progress and provide guidelines to improve the quality of projects.
 - Course accreditation.
 - Course development and Curriculum Design.
 - Maintained accurate course outlines and assessment briefs.
 - Conducted course material and update with course coordinators

NON-ACADEMIC EXPERIENCE (FULL TIME)

- Software Developer, Al-Dara for software Solutions, Jordan | 2003 - 2004
 - Installed and upgraded the Oracle server and application tools.
 - Designed front-end forms for the ease of entering and retrieving data.
 - Created primary database storage structures (tablespaces).
 - Restored and backed up the database.

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

PCEP – Certified Entry-Level Python Programmer | 2026

PROFESSIONAL ORGANIZATIONS

Member, Upsilon Pi Epsilon (UPE) | 2011 – present

Web of Science ResearcherID: AAE-4752-2020

HONORS AND AWARDS

None

PUBLICATION LIST

Journal Articles

- [1] Aijing Feng, Baoning Liu, Anyu Li, Yuan Chen, Lan Ye, Abir Aal Issa, Tamer Abukhalil, Zhi Liu, and Yankun Cao. GraphSP: Graph-Based Learning for Ultrasound Sequential Image Classification of Single-Patient with Limited Samples and Sparse Annotations, Accepted by 2026 International Conference on Intelligent Computing, 22/7/2026
- [2] AbuKhalil, Tamer, Tarek Sobh, and Madhav Patil. "Survey on decentralized modular robots and control platforms." In *Innovations and Advances in Computing, Informatics, Systems Sciences, Networking, and Engineering*, pp. 165-175. Springer, Cham, 2015.
- [3] Al-Mahafzah, Harbi, Tamer AbuKhalil, Malek Alksasbeh, and Bassam Alqaralleh. "Multi-modal palm-print and hand-vein biometric recognition at sensor-level fusion." *International Journal of Electrical and Computer Engineering* 13, no. 2 (2023): 1954.
- [4] Al-Mahafzah, Harbi, Tamer AbuKhalil, and Bassam AY Alqaralleh. "Chaotic Krill Herd with Deep Transfer Learning-Based Biometric Iris Recognition System." *CMC-COMPUTERS MATERIALS & CONTINUA* 73, no. 3 (2022): 5703-5715.
- [5] AlQaralleh, Esam A., Fahad Aldhaban, Halah Nasseif, Bassam AY Alqaralleh, and Tamer AbuKhalil. "Hybrid Metaheuristics-Based License Plate Character Recognition in Smart City." *CMC-COMPUTERS MATERIALS & CONTINUA* 72, no. 3 (2022): 5727-5740.
- [6] Tamer AbuKhalil, Bassam A. Y. Alqaralleh, and Ahmad H. Al-Omari, "Optimal Deep Learning Based Inception Model for Cervical Cancer Diagnosis", *Computers, Materials, and Continua*, Vol. 72, no. 01 (2022). pp.57-71, doi:10.32604/cmc.2022.024367
- [7] Alksasbeh, M., Abukhalil, T., Alqaralleh, B.A. and Al-Kaseasbeh, M., 2021. Smart job searching system based on information retrieval techniques and similarity of fuzzy parameterized sets. *International Journal of Electrical and Computer Engineering (IJECE)*, 11(1), pp.636-645.
- [8] Alksasbeh, M. Z., Alqaralleh, B. A., Abukhalil, T., Abukaraki, A., Al Rawashdeh, T., & Al-Jaafreh, M. M. (2021). Smart detection of offensive words in social media using the soundex algorithm and permuterm index. *International Journal of Electrical & Computer Engineering* (2088-8708), 11(5)
- [9] Alksasbeh, Malek Z., Ahmad H. Al-Omari, Bassam AY Alqaralleh, Tamer Abukhalil, Anas Abukarki, Ibrahim Alkore Alshalabi, and Amal Alkaseasbeh. "Smart hand gesture recognition using K-NN based algorithm for video annotation purposes." *Indones. J. Electr. Eng. Comput. Sci* 21, no. 1 (2021): 242-252.
- [10] Abukhalil, Tamer, Harbi AlMahafzah, Malek Alksasbeh, and Bassam AY Alqaralleh. "Fuel Consumption Using OBD-II and Support Vector Machine Model." *Journal of Robotics 2020* (Vol. 2020), ISSN: 16879600, Published 25/1/2020.
- [11] Abukhalil, Tamer, Harbi Almahafzah, Malek Alksasbeh, and Bassam AY Alqaralleh. "Power Optimization in Mobile Robots Using a Real-Time Heuristic." *Journal of Robotics 2020* (Vol. 2020), ISSN: 16879600, Published:11/2/2020.
- [12] Abukhalil, Tamer, Malek Alksasbeh, Bassam Alqaralleh, and Anas Abukaraki. "Robot Navigation System Using Laser and A Monocular Camera." *Journal of Theoretical and Applied Information Technology*, 98, no. 04 (2020). 714-724
- [13] Bassam A. Y, Alqaralleh, Malek Alksasbeh, Tamer Y. Abukhalil, Harbi M. Almahafzah, and Tawfiq Al Rawashdeh, "Recognition of Handwritten Arabic (Indian) Numerals Using Skeleton Matching", Published 4/6/2020, *Indonesian Journal of Electrical Engineering and Computer Science*. Vol. 19, No. 3. DOI: 10.11591/ijeccs.v19.i3.pp1461-1468
- [14] Abukhalil, Tamer, Madhav Patil, Sarosh Patel, and Tarek Sobh. "Deployment environment for a swarm of heterogeneous robots." *Robotics* 5, no. 4 (2016): 22. <https://doi.org/10.3390/robotics5040022>
- [15] Patil, Madhav, Tamer Abukhalil, Sarosh Patel, and Tarek Sobh. "UB Swarm: hardware implementation of heterogeneous swarm robot with fault detection and power management." *International Journal of Computing* 15, no. 3 (2016): 162-176.
- [16] Patil, Madhav, Tamer Abukhalil, and Tarek Sobh. "Hardware Architecture Review of Swarm Robotics System: Self- Reconfigurability, Self-Reassembly, and Self-Replication." *ISRN Robotics* 2013 (2013). <https://doi.org/10.5402/2013/849606>

- [17] Abukhalil, Tamer, Madhav Patil, and Tarek Sobh. "A Comprehensive Survey on decentralized modular swarm robotic systems and Deployment Environments." *International Journal of Engineering (IJE)* 7.2 (2013): p 44.

Conference Papers

- [18] Abukhalil, T., Patil, M., Patel, S., & Sobh, T. (2016, April). "Coordinating a heterogeneous robot swarm using Robot Utility-based Task Assignment (RUTA)". In 2016 IEEE 14th International Workshop on Advanced Motion Control (AMC) (pp. 57-62). IEEE.
- [19] Patil, Madhav, Tamer Abukhalil, Sarosh Patel, and Tarek Sobh. "UB robot swarm—Design, implementation, and power management." In 2016 12th IEEE International Conference on Control and Automation (ICCA), pp. 577-582. IEEE, 2016.
- [20] Abukhalil, Tamer, Madhav Patil, and Tarek M. Sobh, ", In American Society for Engineering Education (ASEE Zone 1), 2014 Zone 1 Conference, IEEE, 2014.
- [21] Patil, Madhav D., and Tamer Abukhalil. "Design and implementation of heterogeneous robot swarm." ASEE 2014 zone I conference, IEEE, 2014.
- [22] Patil, Madhav, Abukhalil, Tamer, Patel, Sarosh, and Sobh Tarek. "Hardware Architecture Review of Swarm Robotics System: Self-Reconfigurability, Self-Reassembly, and Self-Replication." *Innovations and Advances in Computing, Informatics, Systems Sciences, Networking, and Engineering*. Springer International Publishing, 2015. Pp. 433-444.
- [23] Tamer Abukhalil, Tarek Sobh and Madhav Patil, "Survey on Decentralized Modular Swarm Robots and Control Interfaces." In the proceedings of the International Conference on Systems, Computing Sciences, and Software Engineering (SCSS), December 2012.
- [24] Ibrahim, Alkore Alshalabi, Abu Khalil Tamer, and Abuzneid Abdelshakour. "SEC-TEEN: a secure routing protocol for enhanced efficiency in wireless sensor networks." In *Innovations and advances in computer, information, systems sciences, and engineering*, Springer, New York, NY, 2013.

PROFESSIONAL DEVELOPMENT

None

SERVICE ACTIVITIES (INTERNAL AND EXTERNAL)

None

TRAINING WORKSHOPS

None

Dr. Ihsan Ateya Erikat

Associate Professor (Faculty of Science)

EDUCATION

- **2002-2009** : PhD after Bachelor: PhD in Physics/ University of Jordan/ Amman. Jordan, .
- **1999-2001** : MSc Astronomy/ Institute of Astronomy and Space Science. AL-al-Bait University. Jordan
- **1994-1995** : Educational Sciences / University of Jordan / Amman.
- **1982-1987**: BSc Applied Physics (Solid state and Laser) / Kuwait University / Kuwait

ACADEMIC EXPERIENCE (FULL-TIME)

- (October 2017- Now) Associate Professor, Isra University, Department of Physics.
- (June 2016- October 2017) Associate Professor, Jerash University, Department of Physics.
- (October 2010-June 2016) Assistant Professor, Jerash University, Department of Physics.
- (October 2009- August 2010) Lecturer at Arab Community College, Amman, Jordan.
- (March 2010-August 2010): Assistant Researcher, University of Jordan in Theoretical Physics lab. with Prof. Jamil Khalifeh & Prof. Bothina Hamad.
- Fall Semester (2009-2010): Part Time Lecturer, University of Jordan, Amman- Jordan. Mechanics-I (101).
- Summer Semester (2008-2009): Part Time Lecturer, University of Jordan, Amman- Jordan. (Polymer Physics).
- Summer Semester (2008-2009): Part Time Lecturer, Philadelphia University, Amman - Jordan. (Medical physics).
- (June 2007-December 2008): Assistant Researcher at the University of Jordan in Theoretical Physics lab. with Prof. Jamil Khalifeh & Prof. Bothina Hamad.
- (October 2003-January 2009): Part Time Lecturer (Phy.111, Phy.112, Phy.113) University of Jordan, Amman- Jordan.

NON-ACADEMIC EXPERIENCE (FULL TIME)

- (August 1992- August 2007): Physics and Geology Teacher at High Schools in Ministry of Education / Jordan.
- (August 1990- August 1992): Part time Physics Teacher at High Schools in Ministry of Education / Jordan.
- (August 1987- August 1990): Physics Teacher in High School in Ministry of Education / Kuwait.

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

None

PROFESSIONAL ORGANIZATIONS

None

HONORS AND AWARDS

- (2008-2009) Student award for the best PhD research in the year at University of Jordan.

PUBLICATION LIST

- [1] Mohamed Arar, **Ihsan Erikat**, Ricci Tensor in General Ellipsoidal Geometry, Jordan J. Physics, 19 (2) 2026 123-129.
- [2] **Erikat, I.**, Alkhabbas, M., Maabreh, A. et al. Density functional study of oxygen adsorption and absorption on Ru/Ni(100) surface for corrosion mitigation. Eur. Phys. J. B 99, 42 (2026). <https://doi.org/10.1140/epjb/s10051-026-01149-8>
- [3] **Ihsan Erikat**; Manal Alkhabbas; Hamad, B.; Alahmad, W. The Chalcogen (S, Se, and Te) Doping Effects on the Structural and Electronic Properties of Anatase (101) TiO₂ Thin Surface Layers: DFT Study. International Journal of Photoenergy 2024, 2024 (1). <https://doi.org/10.1155/2024/3489162>
- [4] Andharia E, Alqurashi H, Erikat I, Hamad B and Manasreh MO (2024), Effect of strain profiling on anisotropic opto-electronic properties of As₂X₃ (X =S, Te) monolayers from first principles. Front. Mater. 10:1325194. [doi: 10.3389/fmats.2023.1325194](https://doi.org/10.3389/fmats.2023.1325194)
- [5] Obeid, M., Erikat, I., Hamad, B. *et al.* Ab initio study of the energetic, structural, electronic and magnetic properties of 4d transition metal (M= Ru, Rh, Pd, Ag) on Ni(100) surface. *Indian J Phys* **98**, 2785–2793 (2024). <https://doi.org/10.1007/s12648-023-03056-5>
- [6] -Erikat, I.; **Alkhabbas, M.**; Hamad, B. First Principle Study for the Influence of Alkali Metals (Li, Na, K) on the Adsorption of O and CO on Ir(100) Surface. The European Physical Journal B 2022, 95 (10). <https://doi.org/10.1140/epjb/s10051-022-00430-w>
- [7] -Obeid, M., Erikat, I., Hamad, B. *et al.* Ab initio study of the adsorption of 3d transition metals on Ni(100) surface. *SN Appl. Sci.* **2**, 637 (2020). <https://doi.org/10.1007/s42452-020-2373-4>
- [8] -Mohammad Obeid, **Ihsan Erikat**, Bothina Hamad, Jamil Khalifeh, “**Ab initio study of the adsorption of 3d transition metals on Ni(100) surface**”, SN Applied Sciences (2020) 2:637
- [9] -Sajeda A. Kassab, **I. A. Erikat**, B. A. Hamad and J. M. Khalifeh, “ First principles calculations of the energetic, structural, electronic, and magnetic properties of Fe/Ir(100) system”, Journal of ELECTRONIC MATERIALS**48**, 6932–6939(2019).
- [10] **I. A. Erikat**, First principle study on alkali metals promotion of CO oxidation over Ir(100), Phys. Status Solidi B 253, No. 5, 983–989 (2016).
- [11] **I. A. Erikat**, B. A. Hamad and J. M. Khalifeh, A first principles study of the adsorption of N atom and dissociation of NO molecule on Ir(100) surface. EPJ B, 87: 48 (2014).
- [12] **I.A. Erikat**, B. A. Hamad “A first principle study for the adsorption and
- [13] absorption of carbon atom and the CO”, Journal of Chemical Physics, 139, 174703 (2013).
- [14] **I. A. Erikat**, B. A. Hamad and J. M. Khalifeh,
- [15] “A density functional study for adsorption and oxidation of NO on Ir (1 0 0) surface”, Applied Catalysis A, 449, 9-14(2012).
- [16] **I. A. Erikat**, B. A. Hamad and J. M. Khalifeh, “Coadsorption of CO and O on Ir (1 0 0): First Principles Calculations” Physica B, **407**, 468 (2012).
- [17] **I. A. Erikat**, B. A. Hamad and J. M. Khalifeh, “A density functional study on adsorption and dissociation of O₂ on Ir (1 0 0) surface ”, Chemical Physics, 385, 35 (2011).

- [18] I. A. Erikat, B. A. Hamad and J. M. Khalifeh, "Catalytic Oxidation of CO on Ir (1 0 0)", Physica Status Solidi (b), 284, 1425 (2011).
- [19] I. A. Erikat, B. A. Hamad and J. M. Khalifeh, "Adsorption of O and CO on Ir (1 0 0) from first principles", The European Physical Journal B, 67, 35 (2009).

PROFESSIONAL DEVELOPMENT

None

SERVICE ACTIVITIES (INTERNAL AND EXTERNAL)

- **2022/2023–Present**
 - Assistant Dean for Quality Assurance in Faculty of science Isra University.
- **Member of the University Audit and Quality Assurance Committee**, Isra University
- **Member of the University-Scientific Research Committee**, Isra University
- **Head of the Academic Programs Effectiveness Committee in Faculty of science** Isra University.
- **Member of the Faculty of Science council**
- **2017- Now: Member of the physics department council at the Faculty of science at Isra University.**
- **2019-2020: Member in student complaints committee at Isra University.**
- **2019-2020: Member of the Faculty of Science council.**
- **2017- Now: Member of the physics department council at the Faculty of science at Isra University.**
- **2019-Now: Member in two Faculty of Science committees: quality control committee and strategic planning committee**
- **2019-2022: Member in two Faculty of Science committees: quality control committee and strategic planning committee.**
- **2018-2019: Member in quality control committee at the Faculty of science at Isra University.**
- **(2013-2016): Quality manager at Faculty of Science at Jerash University.**

TRAINING WORKSHOPS

- 2019-2026 All courses at the training programs for faculty members
- 2019-2026 Designing the blending and online courses
- 20219-2026 MT raining Moodle Training

Manal Alkhabbas

Associate Professor (Faculty of Science)

EDUCATION

- 1- Ph.D. in Chemistry (Inorganic Chemistry), The University of Jordan (2007)
- 2- M.Sc. in Chemistry, The University of Jordan (1993)
- 3- B.Sc. in Chemistry, The University of Jordan (1989)

ACADEMIC EXPERIENCE (FULL-TIME)

- 1- Associate Professor, Department of Chemistry, Isra University (Mar./2023-Now)
- 2- Assistant Professor, Department of Chemistry, Isra University (Oct./2018–Mar./2023)
- 3- Assistant Professor, Department of Chemistry, Hail University (KSA) (Sep./2009–Aug./2018)
- 4- Lecturer (Part time), Department of Chemistry, The University of Jordan (Oct./2002–Oct./2007)
- 5- Lecturer, Department of Chemistry, Girls Collage in Alhasa/ KSA (Sep./1997-Aug./2002)
- 6- Lecturer, Department of Chemistry, The University of Jordan (Apr.1993-Aug./1997)

PUBLICATION LIST

1. Alawaideh, S., **Alkhabbas, M.**, Edris, G., Alnasra, O., Hamed, M. A., & Al-Msiedeen, A. (2025). Adsorption of Paracetamol and Naproxen from Wastewater onto Activated Carbon from Avocado Waste: Experimental and DFT Study. *Russian Journal of Physical Chemistry A*, 99(14), 3647-3660.
2. Alnasra, O., **Alkhabbas, M.**, Khalili, F., & Abdel Jabbar, D. (2025). Unlocking the potential of avocado seed activated carbon: rapid and efficient adsorption of Th (IV) ions for sustainable nuclear waste management. *Journal of Environmental Science and Health, Part A*, 60(5), 224-236.
3. Alnasra, O., **Alkhabbas, M.**, Khalili, F., & Abdel Jabbar, D. (2025). Exploring the adsorptive behavior of U (VI) ions on avocado seed-derived activated carbon: an in-depth kinetic and thermodynamic analysis. *Journal of Radioanalytical and Nuclear Chemistry*, 334(2), 1741-1755.
4. Erikat, I. **Alkhabbas, M.** Hamad, B. and Alahmad, W. (2024). The Chalcogen (S, Se, and Te) Doping Effects on the Structural and Electronic Properties of Anatase (101) TiO₂ Thin Surface Layers: DFT Study. *International Journal of Photoenergy*, 2024(1). doi:https://doi.org/10.1155/2024/3489162.
5. Al-Ma'abreh, A.M., **AlKhabbas, M.** Alawaideh, A. Hasan Hussein-Al-Ali, S. Hmedat, D.A., Edris, G., Abuassaf, R. and Hamed, M.A. (2024). Investigation of kinetics, thermodynamics, and isotherms of the simultaneous removal of heavy metal ions by activated carbon from cypress fruit. *Adsorption science & technology*, 42. doi:https://doi.org/10.1177/02636174241256853.
6. Khater, D., **Alkhabbas, M** and Al-Ma'abreh, A.M. (2024). Adsorption of Pb, Cu, and Ni Ions on Activated Carbon Prepared from Oak Cupules: Kinetics and Thermodynamics Studies. *Molecules/Molecules online/Molecules annual*, 29 (11), pp.2489–2489. doi:https://doi.org/10.3390/molecules29112489.
7. Al-Ma'abreh, A.M., **AlKhabbas, M.**, Edris, G., Haddad, M., Kh., Hmedat, D.A., Abuassaf, R., A., Hussein-Al-Ali., S., Alawaideh, S., and Abdelmajeed Adam Lagum (2023). Exploring the kinetics, thermodynamics, and isotherms of sodium naproxen uptake by oak-based activated carbon with ultrasonic enhancement. *Desalination and Water Treatment*, 300, pp.75–83. doi:https://doi.org/10.5004/dwt.2023.29727.
8. **Alkhabbas, M.**, Al-Ma'abreh, A.M., Edris, G., Saleh, T. and Alhmood, H. (2023). Adsorption of Anionic and Cationic Dyes on Activated Carbon Prepared from Oak Cupules: Kinetics and Thermodynamics Studies. *International Journal of Environmental Research and Public Health*, 20(4), p.3280. doi:https://doi.org/10.3390/ijerph20043280.

9. **Alkhabbas, M.**, Odeh, F., Alzughoul, K., Afaneh, R. and Alahmad, W. (2023b). Jordanian Kaolinite with TiO₂ for Improving Solar Light Harvesting Used in Dye Removal. *Molecules*, 28(3), p.989. doi:<https://doi.org/10.3390/molecules28030989>.
10. Erikat, I., **Alkhabbas, M.** and Hamad, B. (2022). First principle study for the influence of alkali metals (Li, Na, K) on the adsorption of O and CO on Ir(100) surface. *The European Physical Journal B*, 95(10). doi:<https://doi.org/10.1140/epjb/s10051-022-00430-w>.
11. Al-Ma'abreh, A.M., Abuassaf, R.A., Hmedat, D.A., **Al Khabbas, M.**, Awaideh, S. and Edris, G. (2022a). Comparative study for the removal of crystal violet from aqueous solution by natural biomass adsorbents of a pinecone, cypress, and oak: kinetics, thermodynamics, and isotherms. *DESALINATION AND WATER TREATMENT*, 274, pp.245–260. doi:<https://doi.org/10.5004/dwt.2022.28895>.
12. Al-Ma'abreh, A.M., Abuassaf, R.A., Hmedat, D.A., **Alkhabbas, M.**, Edris, G., Hussein-Al-Ali, S.H. and Alawaideh, S. (2022). Adsorption Characteristics of Hair Dyes Removal from Aqueous Solution onto Oak Cupules Powder Coated with ZnO. *International Journal of Molecular Sciences*, 23(19), p.11959. doi:<https://doi.org/10.3390/ijms23191195>.
13. **Al Khabbas, M.H.**, Ata, S.A., Abu-Dari, K.I., Tutunji, M.F. and Mubarak, M.S. (2017). Synthesis and characterization of new 1-hydroxy-2-pyridinethione derivatives: Their lead complexes and efficacy in the treatment of acute lead poisoning in rats. *Journal of Trace Elements in Medicine and Biology*, 44, pp.209–217. doi:<https://doi.org/10.1016/j.jtemb.2017.08.004>.
14. Abdel-Satar, A.M., **Al-Khabbas, M.H.**, Alahmad, W.R., Yousef, W.M., Alsomadi, R.H. and Iqbal, T. (2017). Quality assessment of groundwater and agricultural soil in Hail region, Saudi Arabia. *The Egyptian Journal of Aquatic Research*, [online] 43(1), pp.55–64. doi:<https://doi.org/10.1016/j.ejar.2016.12.004>.
15. Khalil, M. I, Al-Yami R. H, **Al-Khabbas M. H.**, Introducing mole fraction in the density calculations of liquid-liquid solutions. *International Journal of Physical*, 8 (2013) 27-30 DOI: 10.5897/IJPS12.075
16. Tutunji, L.F., Tutunji, M.F., Alzoubi, M.I., **Khabbas, M.H.** and Arida, A.I. (2010). Simultaneous determination of irbesartan and hydrochlorothiazide in human plasma using HPLC coupled with tandem mass spectrometry: Application to bioequivalence studies. *Journal of Pharmaceutical and Biomedical Analysis*, 51(4), pp.985–990. doi:<https://doi.org/10.1016/j.jpba.2009.10.023>.
17. Tutunji, M.F., Ibrahim, H.M., **Khabbas, M.H.** and Tutunji, L.F. (2009). Simultaneous determination of bisoprolol and hydrochlorothiazide in human plasma by HPLC coupled with tandem mass spectrometry. *Journal of Chromatography B*, 877(16-17), pp.1689–1697. doi:<https://doi.org/10.1016/j.jchromb.2009.04.021>.

PROFESSIONAL DEVELOPMENT

None

SERVICE ACTIVITIES (INTERNAL AND EXTERNAL)

None

TRAINING WORKSHOPS

None



ASSISTANT PROFESSORS

FACULTY VITAE

17 faculty members | Final pages 74-114

Yousef O. Sharrab, Ph.D.

Assistant Professor, Department of Data Science and Artificial Intelligence

Faculty of Information Technology, Isra University, Amman, Jordan | sharrab@iu.edu.jo

EDUCATION

- **Ph.D.**, Computer Engineering (Artificial Intelligence), Wayne State University, Detroit, Michigan, USA, 2017.
- **M.S.**, Computer Science and Engineering, New York Institute of Technology, New York, USA.
- **B.Sc.**, Electrical and Communication Engineering, Jordan University of Science and Technology, Jordan.

ACADEMIC EXPERIENCE (FULL-TIME)

- Isra University, Amman, Jordan - Assistant Professor, Department of Data Science and Artificial Intelligence, 2021-present, full time. Teaches Artificial Intelligence, Neural Networks and Deep Learning, Computer Vision, Robotics, Autonomous Systems, and Internet of Things; conducts applied AI research and supervises student projects.

NON-ACADEMIC EXPERIENCE (FULL TIME)

- General Motors Research and Development, Warren, Michigan, USA - Senior Research and Development Engineer, 2008-2021, full time. Developed connected- and autonomous-vehicle technologies, including V2V/V2I safety systems, Cooperative Adaptive Cruise Control, perception solutions, and misbehavior-detection algorithms for vehicular communications.

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

None

PROFESSIONAL ORGANIZATIONS

None

HONORS AND AWARDS

None

PUBLICATION LIST

- [1] J. Ababneh, H. Attar, H. Alghamdi, I. Obeidat, Y. Sharrab, J. Bani Salameh, H. Ali, and M. Hafez, "Cybersecurity Laws and Ethical Implications: Integrated Cybersecurity Governance Model (CLEI-ICGM)," *Journal of Cloud Computing*, vol. 15, article 86, 2026. doi: 10.1186/s13677-026-00902-9.
- [2] Y. O. Sharrab, H. Attar, M. A. H. Eljinini, Y. Al-Omary, and W. E. Al-Momani, "Advancements in Speech Recognition: A Systematic Review of Deep Learning Transformer Models, Trends, Innovations, and Future Directions," *IEEE Access*, vol. 13, pp. 46925-46940, 2025. doi: 10.1109/ACCESS.2025.3550855.
- [3] A. Hawamdeh, A. Tarawneh, Y. Sharrab, and D. Al-Fraihat, "Deep Neural Networks Hydrologic and Hydraulic Modeling in Flood Hazard Analysis," *Water Resources Management*, vol. 39, pp. 6121-6137, 2025. doi: 10.1007/s11269-025-04243-1.
- [4] D. Al-Fraihat, Y. Sharrab, A.-R. Al-Ghuwairi, H. Alshishani, and A. Algarni, "Hyperparameter Optimization for Software Bug Prediction Using Ensemble Learning," *IEEE Access*, 2024. doi: 10.1109/ACCESS.2024.3380024.
- [5] D. Al-Fraihat, Y. Sharrab, A.-R. Al-Ghuwairi, N. Sbaih, and A. Qahmash, "Detecting Refactoring Type of Software Commit Messages Based on Ensemble Machine Learning Algorithms," *Scientific Reports*, vol. 14, article 21367, 2024. doi: 10.1038/s41598-024-72307-0.

- [6] Y. O. Sharrah, M. A. Alsmirat, M. A. H. Eljinini, and N. J. Sarhan, "iHELP: A Model for Instant Learning of Video Coding in VR/AR Real-Time Applications," *Multimedia Tools and Applications*, vol. 83, no. 33, pp. 79397-79436, 2024. doi: 10.1007/s11042-024-18666-2

PROFESSIONAL DEVELOPMENT

- Generative Artificial Intelligence training, Stanford University.
- Deep Learning training, deeplizard.
- NS-3 Simulation training, Georgia Institute of Technology.
- CAN Communications training, Vector CANtech Inc.

SERVICE ACTIVITIES (INTERNAL AND EXTERNAL)

- Chair, Study Plans and Program Effectiveness Measurement Committee, Department of Data Science and Artificial Intelligence, Faculty of Information Technology, Isra University, academic year 2025/2026.
- Service responsibilities include curriculum review, program-learning-outcome assessment, continuous improvement planning, and recommendations concerning Artificial Neural Networks and Deep Learning and Computer Vision courses.

TRAINING WORKSHOPS

None

Hamza Alshawabkeh

Assistant Professor

EDUCATION

- PHD: Engineering Sciences/ Information Technology, Lviv Polytechnic National University 2011.

ACADEMIC EXPERIENCE (FULL-TIME)

- 2012 Assistant Professor, Khawarizmi University Technical College, Amman, Jordan.
- 2012-2024 Computer Science Department, Albaha University, Kingdom of Saudi Arabia.
- 2024-2025 Irbid National University -Jordan.

NON-ACADEMIC EXPERIENCE (FULL TIME)

None

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

- Networking course cna
- TOT course.

PROFESSIONAL ORGANIZATIONS

- Head of the Information system Department at Al-Baha University.
- Head of the Academic Committee at the College of Information Technology, Al-Baha University.
- Head of the Student Committee at the College of Information Technology, Al-Baha University.
- Member of the Quality Committee at the College of Information Technology, Al-Baha University.

HONORS AND AWARDS

None

PUBLICATION LIST

- [1] Using Online Appraising Performance during Covid 19 - Advances in Dynamical Systems and Applications – 2022 - <https://www.ripublication.com/adsa.htm> - Research India Publications
- [2] Hanadi Al-Zagheer, Qais Hammori, Hamza Ali AlShawabkeh, Ibrahim Abu Nhleh, Utilizing Artificial Intelligence Techniques to Strengthen Marketing Campaign Resilience : A Proposed Model ,Books- Business Resilience and Business Innovation for Sustainability: The Double-Edged Role of Artificial Intelligence and other Disruptive Technologies, pages 659-669, publisher Springer Nature Switzerland(2/1/2026).
- [3] On-line Human Resources Management Model, Advances in Dynamical Systems and Applications. ISSN 0973- 5321, Volume 17, Number 1, (2022) pp. 37-45 © Research India Publications <https://www.ripublication.com/adsa.htm>
- [4] Analysis and study of Deep Reinforcement Learning based Resource Allocation for Renewable Powered 5G Ultra-Dense Networks, IJCSNS International Journal of Computer Science and Network Security, VOL.24 No.1, January 2024
- [5] Mobile Ultra-Broadband, Super Internet-of-Things and Artificial Intelligence for 6G Visions, IJCSNS International Journal of Computer Science and Network Security, VOL.23 No.12, December 2023
- [6] Hanady Al-Zagheer , Hamza Ali AL Shawabkeh ,Qais Hammoruri, Ibrahim Abu Nahleh, Artificial Intelligence in Identifying Market Opportunities: Revolutionizing Entrepreneurial Strategy and Innovation , ICCR conference 2024, Dubai.

- [7] Hanady Al-Zagheer , Hamza Ali AL Shawabkeh , Ibrahim Abu Nahleh On-line Human Resources Management Model, ISSN 0973-5321, Volume 17, Number 1, (2022) pp. 37-45- SCOPUS3 Indexed.
- [8] ALShawabkeh, Abdullah Kassab AlDa'jah, Ibrahim Abu Nahleh, Hanady Al-Zagheer, Hamza Ali. ADOPTION OF INFORMATION TECHNOLOGY IN SMALL AND MEDIUM WOMEN ENTERPRISES TO IMPROVE BUSINESS PERFORMANCE, Vol 57, No 6 2022 - SCOPUS Indexed.

PROFESSIONAL DEVELOPMENT

None

SERVICE ACTIVITIES (INTERNAL AND EXTERNAL)

None

TRAINING WORKSHOPS

None

Hazim Saleh Al-Rawashdeh

Assistant Professor

EDUCATION

- **Ph.D.** in Computer Science (Software Engineering), Universiti Kebangsaan Malaysia (UKM), Malaysia, 2012
- **master's in computer information systems**, Arab Academy, Jordan, 2003
- **B.Sc. in Computer Science (Applied Computing)**, Aligarh University, India, 1995

ACADEMIC EXPERIENCE (FULL-TIME)

- **2025–Present:** Isra University, Amman, Jordan.
- **2019–2025:** Assistant Professor, Chair of the Computer Science and Cybersecurity Departments, and Vice Dean, Onaizah Colleges, Qassim, Saudi Arabia.
- **Part-Time:** Lecturer in Postgraduate Cybersecurity Programs, Majmaah University, Saudi Arabia.
- **2013–2018:** Assistant Professor, Chair of the Computer Science Department, and Vice Dean, Buraydah Colleges, Qassim, Saudi Arabia.
- **1997–2013:** Instructor, Tafila Technical University, Jordan.

NON-ACADEMIC EXPERIENCE (FULL TIME)

None

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

- Active Member, IEEE Student Branch 2022 - Present

PROFESSIONAL ORGANIZATIONS

- Cisco Networking Academy, JavaScript Essentials 1, May 2026
- Cisco Networking Academy, Python Essentials 2, May 2026

HONORS AND AWARDS

None

PUBLICATION LIST

- 28 peer-reviewed publications (2025–2009) including journals such as Life, Sensors, Symmetry, Journal of Disability Research, and IJACSA.

PROFESSIONAL DEVELOPMENT

None

SERVICE ACTIVITIES (INTERNAL AND EXTERNAL)

- Vice Dean, College of Engineering and Information Technology.
- Chair, Department of Computer Science.
- Chair, Department of Cybersecurity.
- Head, Student Affairs and Examinations Units.
- Academic advising and student mentorship.
- Curriculum development and academic program assessment.
- Participation in accreditation and quality assurance activities.
- Organization and delivery of community outreach programs in cybersecurity, digital forensics, artificial intelligence, and information technology.

TRAINING WORKSHOPS

- **Cybersecurity Incident Response and Digital Evidence**, Al-Salihiyah Charity Association, Unaizah, Saudi Arabia — October 28, 2025.
- **Creativity and Institutional Innovation Using Artificial Intelligence Tools**, Qassim Municipality, Saudi Arabia — May 16, 2025.
- **Cybersecurity Awareness**, Umm Al-Mu'minin Aisha Secondary School, Unaizah, Saudi Arabia — February 15, 2024.
- **Digital Forensics Investigation**, Technical College of Buraidah, Saudi Arabia — May 22, 2023.
- **Cyber Incidents and Digital Evidence**, Al-Salihiyah Charity Association, Unaizah, Saudi Arabia — March 19, 2023.
- **English for Specific Purposes (ESP)**, Department Students Training Program — April 27, 2021.
- **Fundamentals of Digital Forensics Investigation**, Technical College of Jeddah, Saudi Arabia — March 29, 2021.
- **Managing Work Using Microsoft Office Applications**, Faculty Members and Staff — September 14, 2021.
- **Internet Research Skills and Database Utilization Workshop**, Faculty Members and Staff — March 12, 2021.
- **Office Productivity Skills Workshop**, Faculty Members and Staff — February 8, 2021.
- **Verification of Electronically Transmitted Documents**, Community Leaders and the General Public — November 19, 2020.
- **Word Processing Using Microsoft Word**, Faculty Members and Staff — November 11, 2020.

Ahmed Khairat Hammad

Assistant Professor

EDUCATION

- **Doctor of Philosophy in Engineering (Ph.D.)**, specializing in Electronics and Communications Engineering, Faculty of Engineering, Mansoura University, Mansoura, Egypt, 2023.
Dissertation: "Energy Management Systems Based on Wireless Sensor Networks in Intelligent Structures."
- **Master of Science in Engineering (M.Sc.)**, specializing in Electrical Communications Engineering, Faculty of Engineering, Mansoura University, Mansoura, Egypt, November 2017.
Thesis: "Wireless Sensor Networks Powered by Ambient Energy Harvesting."
- **Bachelor of Science in Electrical and Computer Engineering (B.Sc.)**, specializing in Electronics and Communications Engineering, MET, Mansoura, Egypt, July 2011.
Overall Grade: Very Good with Honors (80.84%).
Graduation Project Grade: Excellent.

ACADEMIC EXPERIENCE (FULL-TIME)

- Assistant Professor - ISRA UNIVERSITY From 2024 to Present
- Assistant Professor - NAHDA UNIVERSITY 2023/2024

NON-ACADEMIC EXPERIENCE (FULL TIME)

- El Delta Co. for Fertilizers & Chemical Industries – Instrumentation and control Engineer From 2013 - 2023

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

None

PROFESSIONAL ORGANIZATIONS

None

HONORS AND AWARDS

None

PUBLICATION LIST

- [1] An energy-efficient wireless sensor network routing protocol powered by ambient energy harvesting," International Journal of Wireless and Mobile Computing (IJWMC), vol. 14, no.4, pp. 378-386, Jul 2018. DOI: 10.1504/ijwmc.2018.093861
- [2] A. Hammad, M. A. Mohamed, and H. M. Abdel-Atty, "An Optimized Distributed Routing Protocol for Energy Management Systems Based on Wireless Sensor Networks in Intelligent and Smart Structures," International journal of electrical and computer engineering systems, vol. 13, no. 4, pp. 269–277, Jun. 2022, doi: 10.32985/ijeces.13.4.3.
- [3] A. Hammad, M. A. Mohamed, and H. M. Abdel-Atty, "Enhancement of the performance of wireless sensor networks using the multihop multiantenna power beacon path selection method in intelligent structures," PLOS ONE, vol. 17, no. 11, p. e0276940, Nov. 2022, doi: 10.1371/journal.pone.0276940.
- [4] A. I. A. Eid, S. A. Mjlae, S. Y. Rababa'h, A. Hammad, and M. A. I. Rababah, "Comparative Analysis of Machine Learning Libraries for Neural Networks: A Benchmarking Study," Feb. 2025, doi: 10.1101/2025.02.02.635632.

- [5] A. Hayat, U. Rajanikanth, A. A. Elngar, D. Shamshad, and A. Hammad, "Designing a High-Security Voting System for Fraudulent Detection using Fog Computing Architecture," 2025 3rd International Conference on Business Analytics for Technology and Security (ICBATS), pp. 1–8, May 2025, doi: 10.1109/icbats66542.2025.11258316.
- [6] A. K. Suleiman, A. A. Elngar, D. Biswas, A. Hammad, N. Nurillaeva, and P. A. Snowson, "LSTM Autoencoder for Predictive Maintenance in Industrial Cyber-Physical Systems," 2025 International Conference on Electrical Engineering and Informatics (ICEEI), pp. 1–7, Nov. 2025, doi: 10.1109/iceei68459.2025.11330966.
- [7] K. M. Sagayam, S. Dhanasekar, D. N. Ponraj, T. Jose, A. Hammad, and A. Khedr Suleiman, "Developing a Graphical User Interface for linking the Backscattering Sensor (BB3) to acquire real-time data," 2025 3rd International Conference on Cyber Resilience (ICCR), pp. 1–7, Jul. 2025, doi: 10.1109/iccr67387.2025.11291867.
- [8] H. M. Ibrahim, A. Hammad, A. A. Elngar, and A. Ibrahim, "Adaptive Edge-Based Thresholding for Robust ORB Keypoint Detection Under Varying Illumination," 2025 3rd International Conference on Cyber Resilience (ICCR), pp. 1–8, Jul. 2025, doi: 10.1109/iccr67387.2025.11291778.
- [9] A. A. Elngar, A. Hammad, A. Yorkinoy, N. O. Maaitah, A. Imnazarov, and M. A. R. Surya, "Vision Transformer (ViT) for Satellite-Based Smart City Land Use Classification," 2025 International Conference on Electrical Engineering and Informatics (ICEEI), pp. 1–8, Nov. 2025, doi: 10.1109/iceei68459.2025.11331103.
- [10] A. T. Sadiq, A. Hammad, A. Ganesan, A. A. Elngar, S. Boymuradov, and S. S., "Hybrid Grey Wolf Optimizer–CNN Model for High-Resolution Remote Sensing Image Classification," 2025 International Conference on Electrical Engineering and Informatics (ICEEI), pp. 1–8, Nov. 2025, doi: 10.1109/iceei68459.2025.11330276.
- [11] L. Rajesh et al., "Energy-Aware Optimization and Performance Analysis of LoRaWAN for IoT, Edge Computing, and Smart Sensor Systems," *Energy Informatics*, pp. 60–75, 2026, doi: 10.1007/978-3-032-19137-3_5.
- [12] Leveraging Transfer Learning and Fine-Tuning for Improved Skin Cancer Detection in Dermatoscopic Images. (2025). *Journal of Smart Algorithms and Applications (JSAA)*, 1(2), 37-42.
- [13] Comprehensive Analysis of Security Challenges and Mitigation Strategies in 5G Mobile Wireless Networks. (2025). *Computational Discovery and Intelligent Systems (CDIS)*, 1(2), 36-42.
- [14] M. A. Mohamed, M. M. Abdel-Razzak, A. K. Tawfeec . Effectiveness of Power Harvesting in Hierarchical Routing Protocols in Wireless Sensor Networks. *International Journal of Computer Applications*. 152, 1 (Oct 2016), 9-19. DOI=10.5120/ijca2016911750
- [15] M. A. Mohamed, M. M. Abdel-Razzak, and A. K. Tawfeec, "Routing Protocol for Wireless Sensor Networks Powered by Ambient Energy Harvesting," *International Journal of Scientific & Engineering Research*, vol. 8, no. 3, pp. 278–285, Mar. 2017, doi: 10.14299/ijser.2017.03.003.

PROFESSIONAL DEVELOPMENT

- [1] Strategic Planning for Higher Education Colleges and Institutes (16 Nov 2023) – National Authority for Quality Assurance and Accreditation of Education (NAQAAE), Cabinet of Ministers, Arab Republic of Egypt.
- [2] Self-Assessment for Higher Education Colleges and Institutes (23 Nov 2023) – National Authority for Quality Assurance and Accreditation of Education (NAQAAE), Cabinet of Ministers, Arab Republic of Egypt.
- [3] Program and Course Specification and Learning Outcomes Assessment for Higher Education Colleges and Institutes (30 Nov 2023) – National Authority for Quality Assurance and Accreditation of Education (NAQAAE), Cabinet of Ministers, Arab Republic of Egypt.
- [4] Effective Teaching and Learning Strategies for Higher Education Colleges and Institutes (7 Dec 2023) – National Authority for Quality Assurance and Accreditation of Education (NAQAAE), Cabinet of Ministers, Arab Republic of Egypt.

- [5] Examination Systems and Student Assessment (14 Dec 2023) – National Authority for Quality Assurance and Accreditation of Education (NAQAAE), Cabinet of Ministers, Arab Republic of Egypt.
- [6] External Review Visit Protocols for Higher Education Institutions (21 Dec 2023) – National Authority for Quality Assurance and Accreditation of Education (NAQAAE), Cabinet of Ministers, Arab Republic of Egypt.
- [7] Statistical Analysis Skills (30 Jan 2023) – University Performance Development Center, Mansoura University, Egypt.
- [8] Research Ethics (13 Feb 2023) – University Performance Development Center, Mansoura University, Egypt.
- [9] ICDL (International Computer Driving License) (2019) – Scientific Computer Center, Mansoura University, Egypt.
- [10] Project Management Professional (PMP) (2024) – PM-Tricks Company, Certificate No. 06139.
- [11] Specialty Enablement – Artificial Intelligence and Machine Learning (2024) – Ministry of Higher Education and Scientific Research, Arab Republic of Egypt & AWS Academic Staff Program – AWS Academic Hub.
- [12] Specialty Enablement – Cybersecurity (2024) – Ministry of Higher Education and Scientific Research, Arab Republic of Egypt & AWS Academic Staff Program – AWS Academic Hub.
- [13] Specialty Enablement – Data and Data Analytics (2024) – Ministry of Higher Education and Scientific Research, Arab Republic of Egypt & AWS Academic Staff Program – AWS Academic Hub.
- [14] Specialty Enablement – Software Development and DevOps (2024) – Ministry of Higher Education and Scientific Research, Arab Republic of Egypt & AWS Academic Staff Program – AWS Academic Hub.
- [15] Specialty Enablement – Generative Artificial Intelligence (2024) – Ministry of Higher Education and Scientific Research, Arab Republic of Egypt & AWS Academic Staff Program – AWS Academic Hub.
 - ✓ AWS Educate: Introduction to Cloud 101 (2024).
 - ✓ AWS Educate: Getting Started with Storage (2024).
 - ✓ AWS Educate: Getting Started with Compute (2024).
 - ✓ AWS Educate: Getting Started with Networking (2024).
- [16] 10985 – Introduction to SQL Databases (2021) – MCIT Scholarship with Microsoft, Cloud App Development Track, Egypt | Global Knowledge Company.
- [17] AZ-900T00 – Microsoft Azure Fundamentals (2021) – MCIT Scholarship with Microsoft, Cloud App Development Track, Egypt | Global Knowledge Company.
- [18] MS-900T00 – Microsoft 365 Fundamentals (2021) – MCIT Scholarship with Microsoft, Cloud App Development Track, Egypt | Global Knowledge Company.
- [19] PL-400 – Microsoft Power Platform Developer (2021) – MCIT Scholarship with Microsoft, Cloud App Development Track, Egypt | Global Knowledge Company.
- [20] PLC Advanced Course (2009) – JELECOM Egypt, Faculty of Engineering, Mansoura University, Egypt.
- [21] Industrial Robotic Systems (2010) – JELECOM Egypt, Faculty of Engineering, Mansoura University, Egypt.
- [22] Advanced VHDL and FPGA Course (2009) – JELECOM Egypt, Faculty of Engineering, Mansoura University, Egypt.
- [23] Introduction to GitHub Copilot with python Bootcamp – Skillsoft percipio 2026
- [24] Secure identity management: AZ-1008 - Skillsoft percipio 2026
- [25] CCSP - Skillsoft percipio 2026
- [26] CC – ISC² 2026
- [27] CCT – EC-Council 2026

SERVICE ACTIVITIES (INTERNAL AND EXTERNAL)

None

TRAINING WORKSHOPS

None

Ashraf Saleh Mhammad

Assistant Professor

EDUCATION

- Ph.D. in Artificial Intelligence

ACADEMIC EXPERIENCE (FULL-TIME : 4 Years)

2022–Present Assistant Professor, Al-Isra University, Jordan.

NON-ACADEMIC EXPERIENCE (FULL TIME)

None

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

None

PROFESSIONAL ORGANIZATIONS

- **Digital Quran Representation Using Kalimah Hexadecimal Unicode.** Intellectual Malaysia (MyIPO) by the Centre for Innovation, Industry and Community Network (PIJIM), University of Islamic Sciences Malaysia (USIM). Creators : Ashraf Saleh Al Omoush- Prof. Dr. Norita Md. Norwawi.
No. Filing : **LY2015002039** . Date Of Filing :**02/12/2015**.

HONORS AND AWARDS

- **Digital Quran Representation Using Kalimah Hexadecimal Unicode.** 6th Exposition on Islamic Innovation Exhibition (i-INOVA'15).2015. 24-25th October 2015,Dewan Tunku Canselor, Universiti Sains Islam Malaysia (USIM), Negeri Sembilan.
- **UTF-8 Character Encoding Formulation for Unicode Hexadecimal Representation of Arabic Words in Digital Quran.** 15th International Conference and Exposition on Inventions by Institutions of Higher Learning (PECIPTA 2015) on the 4th – 6th December 2015 at Kuala Lumpur Convention Centre. Malaysia.
- **Storage Optimization for Digital Quran Using Sparse Matrix with Hexadecimal Representation.** 16th International Conference and Exposition on Inventions by Institutions of Higher Learning (PECIPTA 2016) on the 2ed – 4th December 2016 at Kuala Lumpur Convention Centre. Malaysia.

PUBLICATION LIST

- [1] Robust GOA-Driven CNN Parameter Optimization for Effective Rice Leaf Disease Classification.2026
- [2] BreAST-Net: Breast Cancer Classification Using an Advanced Swin Transformer on Histopathological Images.2026
- [3] Analysis and Evaluation of ToN IoT Windows and Garage Door Datasets-2025
- [4] Strategic Route Planning for Disaster Relief in Palu, Indonesia: A MILP Model Incorporating GIS Data-2025
- [5] Automatic Prediction of Learning Styles: A Comprehensive Analysis of Classification Models- 2024

- [6] Critical Evaluation of the Role of Cloud Systems and Networking in the Security and Growth of the Business Market-2024
- [7] LIGHTWEIGHT VERSION FOR DIGITAL QURAN MODEL BY HANDLING DUPLICATION-2023
- [8] The 3D Dyscalculia Assessment Game Framework for Dyscalculia Identification-2022

PROFESSIONAL DEVELOPMENT

None

SERVICE ACTIVITIES (INTERNAL AND EXTERNAL)

None

TRAINING WORKSHOPS

None

Ayah Alsarayreh

Assistant Professor

EDUCATION

2018–2022	Ph.D. in Computer Science, Sultan Zainal Abidin University (UniSZA), Malaysia. Grade: Excellent. Specialization: Data Science and Artificial Intelligence.
2016–2018	M.Sc. in Computer Science, Mutah University, Jordan. Grade: Excellent. Specialization: Artificial Intelligence.
2007–2011	B.Sc. in Computer Science, Mutah University, Jordan. Grade: Good.

ACADEMIC EXPERIENCE (FULL-TIME)

2024–Present	Assistant Professor, Al-Isra University, Jordan.
2024	Assistant Professor, Mutah University, Jordan (part-time appointment listed in the original CV).

NON-ACADEMIC EXPERIENCE (FULL TIME)

- 2012–2018: Manager, Zain Company, Mutah Branch, Jordan.

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

None.

PROFESSIONAL ORGANIZATIONS

None.

HONORS AND AWARDS

None.

PUBLICATION LIST

- [1] Ayah Alsarayreh. "Comparative Analysis of Dimensionality Reduction Techniques and Machine Learning Algorithms for Face Mask Detection." Tuijin Jishu / Journal of Propulsion Technology, 44(5), 2023.
- [2] Ayah Alsarayreh and Fatma Susilawati Mohamad. "Constrained Local Models (CLM) for Facial Feature Extraction using CLNF and SVR as Patch Experts." International Journal of Recent Technology and Engineering (IJRTE), 9(2), 2020.
- [3] Ayah Alsarayreh and Fatma Susilawati Mohamad. "Enhanced Constrained Local Models (CLM) for Facial Feature Extraction." International Journal of Engineering Research and Technology (IJERT), 13(11), 2020.
- [4] Ayah Alsarayreh and Fatma Susilawati Mohamad. "Enhanced Constrained Local Models for Gender Prediction." Bulletin of Electrical Engineering and Informatics, 11(1), 2022.
- [5] Bassam Al-Mahadeen and Ayah Alsarayreh. "Effective Model for Achieving a High Efficiency Level in WiMAX: Karak Case Study." IJCSNS International Journal of Computer Science and Network Security, 17(9), 2017.

PROFESSIONAL DEVELOPMENT

- **Research Fields:** Pattern Recognition; Artificial Intelligence; Data Science.
- **Areas of Interest:** Data Science; Artificial Intelligence; Pattern Recognition; Operating Systems.
- **Software Skills:** Microsoft Office; LaTeX; Microsoft Access.



- **Personal Skills:** Quick learner; able to handle multiple situations at the same time; creativity; effective time management; good computer handling skills.

SERVICE ACTIVITIES (INTERNAL AND EXTERNAL)

None

TRAINING WORKSHOPS

- | | |
|-------------|--|
| 2021 | Ayah Alsarayreh and Fatma Susilawati Mohamad. "Facial Feature Extraction with Constrained Local Models." International Multidisciplinary Conference on Current Research Trends, India, 6–7 March 2021. |
|-------------|--|

Ali Nayef Khaleel Alhejoj

Assistant Professor

EDUCATION

- **Ph.D. in Engineering Sciences (Computer Science)**, specializing in Mathematical Modeling and Computational Methods, V. N. Karazin Kharkiv National University, Ukraine, 2011.
- **Master's Degree in Systems Analysis Engineering**, Kharkiv Polytechnic Institute, Ukraine, 2002.
- **Bachelor's Degree in Computer Science**, Kharkiv Polytechnic Institute, Ukraine, 2001.

ACADEMIC EXPERIENCE (FULL-TIME)

- Assistant Professor, Isra University, Amman, Jordan (Present)
- Irbid National University, Jordan, 2014

NON-ACADEMIC EXPERIENCE (FULL TIME)

- Security Systems Specialist
- National Center for Security and Crisis Management, Jordan, 2012 - 2014

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

None

PROFESSIONAL ORGANIZATIONS

None

HONORS AND AWARDS

None

PUBLICATION LIST

- [1] Almahaqeri, S. A., Almourish, M. H., Nasser, A. A., Alghawli, A. S. A., Elsayed, A. A., & Alhejoj, A. N. (2026). An optimized gradient boosting framework for IoT intrusion detection: a comprehensive evaluation on the CICIoT2023 dataset. Scientific Reports. <https://doi.org/10.1038/s41598-026-47399-5>.
- [2] Alhejoj, A. N., & Ignatov, S. Y. (2006). Modeling of Multi-Phase Servicing Complexes. Information Processing Systems, Issue 6 (55), pp. 164-174. Kharkiv: Kharkov Air Force University named after Ivan Kozhedub.
- [3] Alhejoj, A. N., Zholtkevich, G. N., & Ignatov, S. Y. (2006). Operative Planning of Multi-Phase Servicing Complexes. Information Planning of Multi-Phase Systems, Issue 6 (12), pp. 53-57. Kharkiv: Kharkov Air Force University named after Ivan Kozhedub.
- [4] Alhejoj, A. N., Zholtkevich, G. N., & Ignatov, S. Y. (2006). Operative Control over Multi-Phase Servicing Complexes. Radio Electronic Computer Systems, Issue 4 (16), pp. 109-118. Kharkiv: KHAI.
- [5] Alhejoj, A. N., & Ignatov, S. Y. (2006). Modeling of Multi-Phase Servicing Complexes with a Fixed Cycle. Bulletin of Kharkiv National University named after V. N. Karazin, Series "Mathematical Modeling. Information Technologies. Automated Control Systems," No. 733, pp. 17-24.
- [6] Alhejoj, A. N. (2006). Modeling of Static and Dynamic Portfolios of Requests for Multi-Phase Servicing Systems. Collection of Scientific Works, Issue 9 (58), pp. 115-119. Kharkiv: Kharkiv Air Force University named after Ivan Kozhedub.
- [7] Alhejoj, A. N. (2006). Modeling of Processes of Operative Control Over Multi-Stage Servicing Systems. Collection of Scientific Works, Issue 2 (60), pp. 2-6. Kharkiv: MOU, Kharkiv Air Force University named after Ivan Kozhedub. ISSN 1681-7710.

- [8] Alhejoj, A. N. (2011). Modeling and Synthesis of Balanced Servicing Programs. Systems of Control, Navigation and Communication, Issue 1 (17), pp. 165-168.
- [9] Almourish, M. H., & Alhejoj, A. N. Face Mask Detection with the EfficientNet-B7 and VGG16 Models. International Conference on Innovation for Emerging Technologies, Isra University. (Under Review).
- [10] Almourish, M. H., & Alhejoj, A. N. Recognizing Speech Emotions with CNN and LSTM Models Based on Special Feature Extraction Techniques. International Conference on Innovation for Emerging Technologies, Isra University, 2025. (Under Review).

PROFESSIONAL DEVELOPMENT

- [1] International Scientific-Practical Conference "Modern Information Technologies in Control and Professional Training of Complex Systems Operators," Kirovohrad, Ukraine, December 2003.
- [2] IIIrd International Scientific-Practical Conference "Dynamics of Scientific Researches 2004," Dnepropetrovsk, Ukraine, June 2004.
- [3] VIIth All-Ukrainian Scientific-Practical Conference "Computer Modeling and Information Technologies in Science, Economics and Education," Kryvy Rih, Ukraine, April 2005.
- [4] IInd International Scientific-Practical Conference "Modern Scientific Researches - 2006," Ukraine, February 2006.
- [5] XIVth International Scientific-Practical Conference "Information Technologies: Science, Techniques, Education, Public Health," Kharkov, Ukraine, May 2006.
- [6] Ist International Scientific-Practical Conference "News of Scientific Thought - 2006," Dnepropetrovsk, Ukraine, November 2006.

SERVICE ACTIVITIES (INTERNAL AND EXTERNAL)

- [1] Member, Activities, Community Service, and Training Committee, 2024-2026.
- [2] Member, Academic Advising and Struggling Students Committee, 2025.
- [3] Head, Student Advising and Graduate Follow-up Committee, 2025-2026.
- [4] Head, Quality Criterion 5 (Financial, Material, and Human Resources).
- [5] Head, Quality Criterion 4 (Students) - Computer Science Department.
- [6] Head, Quality Criterion 4 (Students) - Artificial Intelligence Department.
- [7] Acting Head, Department of Computer Science and Department of Information Security and Cybersecurity.
- [8] Member, Quality Criterion 6 (Self-Assessment and Continuous Development).

TRAINING WORKSHOPS

- [1] "Moodle Training Course," Center for E-Learning and Distance Education, Isra University, 2024.
- [2] "Attendance Policy and Procedures using E-Learning System Attendance Tool," Center for E-Learning and Distance Education, Isra University, February 23, 2025.
- [3] "Evaluation Standards for Blended and Fully Online Course Sites," Center for E-Learning and Distance Education, Isra University, February 23, 2025.
- [4] "Digital Security and Faculty Accounts Protection," Center for E-Learning and Distance Education, Isra University, February 25, 2025.
- [5] "Formulating Effective and Measurable Learning Outcomes," Center for E-Learning and Distance Education, Isra University, February 26, 2025.

Ibrahim Abu Nahleh

Assistant Professor

EDUCATION

- PHD: Technical Sciences / Automated Control Systems, Azerbaijan State Academy, 2003.

ACADEMIC EXPERIENCE (FULL-TIME)

- **2004–2008:** Assistant Professor, Department of Management Information Systems, Applied Science Private University, Amman, Jordan.
- **2008–2012:** Department of Computer Science, Applied Science Private University, Amman, Jordan.
- **2012–2016:** Al-Baha University, Kingdom of Saudi Arabia.

NON-ACADEMIC EXPERIENCE (FULL TIME)

- Online Course Instructor, Mazaya University College, Iraq.
- Online Course Instructor, The World Islamic Sciences and Education University, Jordan.

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

- Microsoft Certified Azure AI Fundamentals
- Cisco (Digital Awareness)
- Python (python Essentials1)

PROFESSIONAL ORGANIZATIONS

- Head, Department of Information Technology, Al-Baha University.
- Head, Computer Unit, Applied Science Private University.
- President, Jordanian Association for Telecommunications and Computerization.
- Council Member, Scientific Committee, Jordan Engineers Association.
- Council Member, Graduation Projects Committee, Jordan Engineers Association.
- Council Member, Jordanian Azerbaijani Friendship Association.
- Council Member, Professional Practice Committee, Jordan Engineers Association.
- Council Member, Experts Committee, Jordan Engineers Association.

HONORS AND AWARDS

None

PUBLICATION LIST

- [1] Ali N. K Alhejoh, Ibrahim AbuNahleh, M0hammed Hashem Almourish, Unified Hybrid Self-Supervised Architecture Combining Contrastive and Non-Contrastive Learning for Multi –Level Visual Representation: SIRG, Journal of Smart Algorithms and Applications JSAA, Vol.2 No. 1 (2026): February-2026.
- [2] Hanadi Al-Zagheer, Qais Hammori, Hamza Ali AlShawabkeh, Ibrahim Abu Nhleh, Utilizing Artificial Intelligence Techniques to Strengthen Marketing Campaign Resilience : A Proposed Model ,Books- Business Resilience and Business Innovation for Sustaninability: The Double-Edged Role of Artificial Intelligence and other Disruptive Technologies, pages 659-669, publisher Springer Nature Switzerland(2/1/2026).
- [3] Hanadi Al-Zagheer, Qais Hammori, Ayad Fadhil Altememi, Ibrahim Abu Nhleh, Improving Marketing Mix Elements with Artificial Intelligence : A Comprehensive Review, Books- Business Resilience and Business Innovation for Sustaninability: The

Double-Edged Role of Artificial Intelligence and other Disruptive Technologies, pages 327-338, publisher Springer Nature Switzerland(2/1/2026).

- [4] Hanadi Al-Zagheer, Ayad Fadhil Altememi, Qais Hammori, Ibrahim Abu Nahleh, Digital Human resources : proposed model , Central European Management Journal, Volume 30, Vercion 4, pages 1392-1397.(21-11-2022)
- [5] Hanady Al-Zagheer, Qais Hammouri, Ayad Fadhil Altememi, Ibrhim Abu Nahleh, Improving Marketing Mix Elements with Artificial Intelligence: An-Najah National University and the School of Business - The University of Jordan (FBCC-2024) Conference.
- [6] Hanady Al-Zagheer , Hamza Ali AL Shawabkeh ,Qais Hammoruri, Ibrahim Abu Nahleh, Artificial Intelligence in Identifying Market Opportunities: Revolutionizing Entrepreneurial Strategy and Innovation , ICCR conference 2024, Dubai.
- [7] Hanady Al-Zagheer , Hamza Ali AL Shawabkeh , Ibrahim Abu Nahleh On-line Human Resources Management Model, ISSN 0973-5321, Volume 17, Number 1, (2022) pp. 37-45- SCOPUS3 Indexed.
- [8] Hanadi Al-Zagheer, Ibrahim Abu Nahleh, Adoption of Information Technology in Small and Medium Enterprises' Business Performance Women, JOURNAL OF SOUTHWEST JIAOTONG UNIVERSITY, Vol.57 No.6, 776- 782, 2022 –SCOPUS4 Indexed.
- [9] ALShawabkeh, Abdullah Kassab AlDa'jah, Ibrahim Abu Nahleh, Hanady Al-Zagheer, Hamza Ali. ADOPTION OF INFORMATION TECHNOLOGY IN SMALL AND MEDIUM WOMEN ENTERPRISES TO IMPROVE BUSINESS PERFORMANCE, Vol 57, No 6 2022 - SCOPUS Indexed.
- [10] Hanadi Al-Zagheer, Ibrahim Abu Nahleh, Fuzzy Database Techniques During Corona Epidemic, Annals of the Romanian Society for Cell Biology, Vol.25, No.6, 17858- 17864 ,2021-SCOPUS Indexed.

PROFESSIONAL DEVELOPMENT

None

SERVICE ACTIVITIES (INTERNAL AND EXTERNAL)

- Teaching Python lectures to students at Sharif Abdul Hamid Sharaf Vocational Secondary School for Boys.(2025)

TRAINING WORKSHOPS

- **Certificate of Appreciation**, Jordan Engineers Association, in recognition of membership in the Graduation Projects Competitions Committee for Jordanian Universities, 2011.
- **Certificate of Attendance**, “KPIs for IT Growth” training program, May 6, 2026.
- **Certificate of Participation**, Scientific Day, Isra University, June 7, 2026.
- **Certificate of Appreciation and Recognition**, Electrical Engineering Division, for distinguished service on the Electrical Scientific Committee and contributions to the engineering profession and professional association activities during 2022–2025, awarded May 4, 2025.
- **Certificate of Appreciation and Recognition**, Hittin College, for active participation in the following workshops held from October 5–15, 2022:
 - ✓ Classroom Management Workshop.
 - ✓ Time Management Workshop.
 - ✓ Scientific Research Workshop.

Ibrahim Mohamed Saad Darwish

Assistant Professor

EDUCATION

- **Doctor of Philosophy in Computer Science (Ph.D.)**, specializing in Internet of Things Security, Faculty of Science, South Valley University, Qena, Egypt, 2024.
Dissertation: "An Improved Lightweight Security Approach for Routing Protocols in the Internet of Things."
- **Master of Science in Information Technology (M.Sc.)**, specializing in Computer Science, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt, December 2017.
Thesis: "Enhanced Algorithms for Faulty-Node Recovery in Wireless Sensor Networks."
- **Bachelor of Science in Computer Science (B.Sc.)**, Faculty of Science, Alexandria University, Alexandria, Egypt, July 1996.
Overall Grade: Very Good with Honors (79.5%).
Graduation Project Grade: Very Good.

ACADEMIC EXPERIENCE (FULL-TIME)

- Assistant Professor - ISRA UNIVERSITY From 2024 to Present

NON-ACADEMIC EXPERIENCE (FULL TIME)

- ECCRM – Ministry of Defense – Senior Network Engineer From 2018 - 2024

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

- CCNA – CCNA Security – CCNA Voice – CCNP – OCA – IBM DB2 - AWS

PROFESSIONAL ORGANIZATIONS

- Cisco – Oracle – IBM - Amazon

HONORS AND AWARDS

None

PUBLICATION LIST

- [1] Mostafa, Samih M., Ibrahim M. Darwish, and Mohamed R. Saadi. "Improved lightweight security approach routing protocol in internet of things." Internet of Things 11 (2020): 100208.
- [2] Darwish, I. M., and S. M. Elqafas. "Enhanced algorithms for fault nodes recovery in wireless sensors network." Int. J. Sens. Netw. Data Commun 6 (2016): 150.

PROFESSIONAL DEVELOPMENT

Professional Certifications and Specialized Training

Cloud Computing

- Amazon Web Services (AWS) Certified Solutions Architect – Associate (SAA-C01), December 2019.
- Docker and Kubernetes Training.

Networking and Infrastructure

- Cisco Certified Network Professional (CCNP), April 2010.
- Cisco Certified Network Associate (CCNA), August 2008.

- Cisco Certified Network Associate Voice (CCNA Voice), self-study, July 2010.
- Cisco Certified Network Associate Security (CCNA Security), self-study, May 2010.
- Juniper Networks Certified Associate (JNCIA).
- Alcatel-Lucent Network Routing Specialist I (NRS I), January 2014.
- Specialized Training in Cisco Data Center and Application Centric Infrastructure (ACI).
- CCIE Lab Training, Dubai Mobile Lab, August 2015.

Databases and Operating Systems

- IBM DB2 9 Certified Associate, June 2011.
- IBM AIX Administration I, November 2010.
- Introduction to IBM AIX 6.1, May 2009.
- Oracle Certified Associate (OCA), self-study, February 2010.
- Oracle Database Administrator, Oxford Institute, Alexandria, July 2001.
- Oracle Developer Application, Oxford Institute, Alexandria, October 2007.

Professional and Academic Service

- **Technical Reviewer and Jury Member:** Served as an external evaluator for local and regional IT project competitions, assessing the technical feasibility and innovation of student-developed Internet of Things and cybersecurity applications.
- **Continuing Education and Mentorship:** Mentored junior faculty members and laboratory engineers in installing and administering Red Hat Linux, Oracle RAC clusters, and virtualization environments to strengthen departmental IT support capabilities.

SERVICE ACTIVITIES (INTERNAL AND EXTERNAL)

Internal Service — University and Department

- **Curriculum Development Committee Member:** Active member of the College of Information Technology's Curriculum Development Committee at Isra University. Contributed to revising and aligning undergraduate Network Security and Cloud Computing courses with current industry standards, 2024–Present.
- **Laboratory and Infrastructure Development:** Led the design and establishment of the university's advanced networking and cybersecurity laboratory, including the configuration of enterprise-grade equipment and platforms such as Cisco ASA firewalls, Cisco Nexus switches, and VMware ESXi environments for practical student training, 2024–Present.
- **Student Advising and Mentorship:** Academic advisor for undergraduate students in the College of Information Technology, providing guidance on course selection, career pathways in blockchain and artificial intelligence, and final-year capstone projects.

External Service — Professional and Community

- **Industry Collaboration and Consulting:** Served as a subject-matter expert for government-sector information-security projects, drawing on prior experience as an IT consultant for the Egyptian Ministry of Defense. Provided advisory services concerning secure routing protocols and data-center infrastructure through ongoing Isra University partnerships.

TRAINING WORKSHOPS

- Workshop: "Enterprise Cloud Architecture & DevOps Integration"
- Workshop: "Next-Generation Network Security & Threat Mitigation"
- Workshop: "Wireless Sensor Networks & Lightweight IoT Security"

Esraa Mahmoud Jamil Al Sariera

Assistant Professor / Data Science and Artificial Intelligence

EDUCATION

- **Ph.D. in Computer Science**, University of Mysore, India, 2024.
Research Areas: Artificial Intelligence, Computer Vision, Deep Learning, Medical Image Analysis, and Image Processing.
- **Master of Technology (M.Tech.) in Computer Science and Technology**, University of Mysore, India, 2019.
GPA: 97.8% — Distinction.
- **Bachelor of Science (B.Sc.) in Computer Engineering**, Mu'tah University, Jordan, 2010.
GPA: 78.9% — Very Good.

ACADEMIC EXPERIENCE (FULL-TIME)

- Assistant Professor, Israa University, Jordan (January 2025 – present).
- Assistant Professor, Al-Ahliyya Amman University, Jordan (January 2025 – february 2026).
- Research and Teaching Assistant, University of Mysore, India (May 2021 – April 2022).

NON-ACADEMIC EXPERIENCE (FULL TIME)

None

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

- Registered Engineer, Jordan Engineers Association (JEA), Membership No. 29761/4, Since February 2010.
- PCEP™ – Certified Entry-Level Python Programmer (PCEP-30-02), Python Institute, April 2026.

PROFESSIONAL ORGANIZATIONS

- Graduated with Distinction in the M.Tech. in Computer Science and Technology program at the University of Mysore, India, achieving a GPA of 97.8%.
- Published research articles in Scopus-indexed Q1 and Q2 journals and international conference proceedings.

HONORS AND AWARDS

- Graduated with Distinction in M.Tech in Computer Science and Technology, University of Mysore, India (GPA: 97.8%).
- Published research in Scopus-indexed journals (Q1 and Q2) and international conference proceedings

PUBLICATION LIST

- [1] F. A. Al-Alshare, E. Alsariera, B. K. Almagharbeh, M. I. Allahham, R. N. A. Al-Rawashdeh, and N. H. S. Alfawaerh, "The big data analytics to digital marketing path strengthened by knowledge management," *International Journal of Data and Network Science*, 2025. **Scopus Q1**. DOI: [10.5267/j.ijdns.2025.10.007](https://doi.org/10.5267/j.ijdns.2025.10.007).
- [2] M. Allahham, M. Almajali, E. M. Sariera, A. Bani Ahmad, and N. H. S. Alfawaerh, "The impact of artificial intelligence adoption on green FinTech performance in the

- energy sector: The mediating role of sustainable innovation,” *International Journal of Data and Network Science*, accepted for publication, 2026. **Scopus Q1**.
- [3] E. Sariera, M. Allahham, W. Almajali, and N. Al-Fawareh, “Investigating the role of the integration of digital technologies in the impact of social media on hospitality performance in Jordan,” *GeoJournal of Tourism and Geosites*, 2026. **Scopus Q1**. DOI: [10.30892/gtg.65219-1724](https://doi.org/10.30892/gtg.65219-1724).
- [4] E. M. J. Al Sariera and M. C. Padma, “Automated cataract detection and classification using random forest classifier in fundus images,” *International Journal of Intelligent Engineering and Systems*, vol. 17, no. 4, p. 26, 2024. **Scopus Q2**. DOI: [10.22266/ijies2024.0831.03](https://doi.org/10.22266/ijies2024.0831.03).
- [5] E. M. J. Al Sariera and M. C. Padma, “A review on automated detection and classification of diseases in retinal images,” *International Journal of Medical Engineering and Informatics*, 2022. **Scopus Q2; DBLP**. DOI: [10.1504/IJMEI.2022.10048781](https://doi.org/10.1504/IJMEI.2022.10048781).
- [6] A. Arab, Omar, Hind, and E. Alsariera, “Hybridization of deep learning models for multiclass attack detection in wireless sensor networks,” *Journal of Communications*, vol. 21, no. 1, pp. 20–34, 2025. **Scopus Q2**. DOI: [10.12720/jcm.21.1.20-34](https://doi.org/10.12720/jcm.21.1.20-34).
- [7] E. M. J. Al Sariera, “Diagnosis of hypertensive retinopathy by detection of artery/vein in retinal images using Res-UNet and GCN models,” *Healthcare Technology Letters*, 2026. **Scopus Q2**. DOI: [10.1049/htl2.70054](https://doi.org/10.1049/htl2.70054).
- [8] E. M. J. Al Sariera and M. C. Padma, “Detection of artery/vein in retinal images using CNN and GCN for diagnosis of hypertensive retinopathy,” in *International Conference on IoT-Based Control Networks and Intelligent Systems*, Singapore: Springer Nature, 2023, pp. 277–290. **Scopus Q3**. DOI: [10.1007/978-981-99-6586-1_19](https://doi.org/10.1007/978-981-99-6586-1_19).
- [9] E. M. J. Al Sariera and M. C. Padma, “Retinal structure segmentation for glaucoma classification using fundus and OCT images,” *International Journal of Medical Engineering and Informatics*, accepted July 7, 2024. **Scopus Q2; DBLP**.
- [10] E. M. J. Al Sariera, “Knee osteoarthritis severity grading using contrastive learning image pre-training,” MDPI, 2026. **Scopus Q1**. DOI: [10.3390/jpm16060314](https://doi.org/10.3390/jpm16060314).

PROFESSIONAL DEVELOPMENT

- Continuous professional development in artificial intelligence, machine learning, deep learning, and computer vision.
- Development and delivery of undergraduate courses in artificial intelligence, data science, programming, operating systems, and data visualization.
- Research and development in medical image analysis, retinal disease diagnosis, and explainable artificial intelligence applications.

SERVICE ACTIVITIES (INTERNAL AND EXTERNAL)

- Participated in international conferences and scholarly dissemination activities.
- Collaborated with researchers from national and international institutions on interdisciplinary research projects.
- Contributed to scientific publications in Scopus-indexed journals and conference proceedings.

TRAINING WORKSHOPS

- Artificial Intelligence and Machine Learning Workshops.
- Deep Learning and Computer Vision Training Programs.
- Python Programming and Data Science Workshops.
- Academic Quality Assurance and Assessment Workshops.

Amro Marei Alshawawreh

Assistant Professor

EDUCATION

- **Ph.D.** in Multimedia, Universiti Utara Malaysia, Malaysia, 2019.
- **M.Sc.** in Information Technology, Universiti Utara Malaysia, Malaysia, 2010.
- **B.Sc.** in Computer Science, Mutah University, Jordan, 2005.

ACADEMIC EXPERIENCE (FULL-TIME)

- Assistant Professor, Department of Information Technology, Al-Isra University, Jordan (2023 – Present).
- Assistant Professor, Department of Information Technology, National University College of Technology (2021 – 2023)

NON-ACADEMIC EXPERIENCE (FULL TIME)

None

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

Microsoft Power Platform Fundamentals (PL-900)

PROFESSIONAL ORGANIZATIONS

- Member, Information Technology Club – Faculty of Information Technology, Isra University – 2026
- Member, Student Activities Committee – Faculty of Information Technology, Isra University – 2026
- Volunteer, Academic and Scientific Events – Isra University – 2026
- Participant, University Innovation and Technology Activities – Isra University – 2026

HONORS AND AWARDS

- Certificate of Appreciation for Academic/Scientific Participation – Faculty of Information Technology, Isra University – 2026
- Best Graduation Project Award – Faculty of Information Technology, Isra University – 2026

PUBLICATION LIST

- Privacy-Preserving Agentic AI and Federated Learning in IoT Healthcare Networks with Blockchain Auditing
- Artificial Intelligence in Digital Marketing: A Strategic Roadmap for Innovation, Trust, and Long-Term Value

PROFESSIONAL DEVELOPMENT

- Participation in training courses in Information Technology
- Training in Microsoft Power Platform Fundamentals (PL-900)

SERVICE ACTIVITIES (INTERNAL AND EXTERNAL)

None

TRAINING WORKSHOPS

- ABET Accreditation and Assessment Workshop.
- Data Visualization using R Workshop.

- Internet of Things (IoT) Applications Workshop.
- Artificial Intelligence and Machine Learning Workshop.
- Academic Quality Assurance and Accreditation Workshop

Mohamed M. Reda Ali Darwish

Assistant Professor

EDUCATION

- **Ph.D. in Information Systems**, Faculty of Computers and Artificial Intelligence, Fayoum University, Fayoum, Egypt, September 2024.
Dissertation: "Adaptive Data-Mining Techniques to Support Decision-Making in the Agricultural Domain."
Ph.D. Registration: February 2019.
- **M.Sc. in Information Systems**, Faculty of Computers and Information, Helwan University, Egypt, August 2012.
Thesis: "Enhancing Business Intelligence Applications by Applying Multi-Criteria Decision-Making."
M.Sc. Registration: September 2010.
- **Master's Qualifying Courses in Information Systems and Business Information**, Faculty of Computers and Information, Helwan University, Egypt, July 2010.
- **Postgraduate Diploma in Information Systems and Business Information Technology**, Faculty of Computers and Information, Helwan University, Egypt, July 2009.
- **B.Sc. in Physics**, Faculty of Science, Cairo University, Egypt, May 1999.

ACADEMIC EXPERIENCE (FULL-TIME)

Academic and Research Experience

- **2025–Present:** Assistant Professor, Isra University, Amman, Jordan.
- **2024–2025:** Assistant Professor, Nahda University, Egypt.
- **2015–Present:** Assistant Professor, Information Center for Climate Change, Renewable Energy, and Expert Systems, Agricultural Research Center (ARC), Giza, Egypt.
- **Researcher**, Department of Information Systems, Faculty of Computers and Artificial Intelligence, Fayoum University, Egypt.
- **Doctoral Researcher**, Department of Information Systems, Faculty of Computers and Artificial Intelligence, Fayoum University, Egypt.
- **Lecturer**, Department of Management Information Systems, College of Business Administration, Jazan University, Jazan, Saudi Arabia.

Scientific Reviewing Activities

- Member of the Scientific Review Committee, 1st International Conference on Emerging Technologies and Engineering Systems (ICETES 2026).
- Scientific Reviewer, *Journal of King Saud University – Science*, Elsevier B.V.
- Scientific Reviewer, *SN Computer Science*, Springer Nature Singapore Pte Ltd.

Professional Memberships

- Scientific Member, International Association of Computer Science and Information Technology (IACSIT).
- Scientific Member, Association of Computer Electronics and Electrical Engineers (ACEEE), Institute of Doctors, Engineers and Scientists (IDES).

NON-ACADEMIC EXPERIENCE (FULL TIME)

- Assistant Researcher at the Central Lab of Agriculture Expert Systems (CLAES), Agricultural Research Center (ARC), Giza, Egypt. From 2002 until 2014.

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

None

PROFESSIONAL ORGANIZATIONS

None

HONORS AND AWARDS

None

PUBLICATION LIST

- [1] S. Hamouda, A. Mohamed, A. Elshenawy, A. Elsayed, and M. M. Reda Ali, "AI-based approach for detecting pediatric pneumonia from chest X-rays," *Journal of Artificial Intelligence and Technology*, 2026. DOI: [10.37965/jait.2026.1236](https://doi.org/10.37965/jait.2026.1236).
- [2] M. M. Reda Ali, M. Hazman, M. H. Khafagy, *et al.*, "Framework to predict the food security status of wheat in Egypt based on a data-mining approach," *SN Computer Science*, vol. 7, article 309, 2026. DOI: [10.1007/s42979-026-04836-6](https://doi.org/10.1007/s42979-026-04836-6).
- [3] A. Elsayed, S. Hamouda, A. Mohamed, M. M. R. Ali, and S. A. Mjlae, "From client-side to server-side: Rethinking web security in the age of multimodal AI," in *Proceedings of the 1st International Conference on Emerging Technologies and Engineering Systems (ICETES)*, Amman, Jordan, 2026, pp. 296–300. DOI: 10.1109/ICETES68504.2026.11518987.
- [4] M. Abualhaj, H. Adeel, K. Masood, H. Soltani, H. Zemmouri, M. M. Reda Aly, A. T. Elgammal, and S. Mehmood, "Comparative analysis of LSTM-based variant models for detecting attacks in IoT networks," *Journal of Computing and Biomedical Informatics*, vol. 10, no. 1, 2025. DOI: [10.56979/1001/2025/1169](https://doi.org/10.56979/1001/2025/1169).
- [5] M. M. Reda Ali, M. Hazman, M. H. Khafagy, and M. Thabet, "Intelligent decision model to predict and manage the food security status of dry broad beans," *International Journal of Innovative Science and Research Technology*, vol. 8, no. 8, pp. 2289–2299, 2023.
- [6] M. M. Reda Ali, M. Hazman, M. H. Khafagy, and M. Thabet, "Intelligent food security model to predict the self-sufficiency status of wheat based on supervised classification algorithms," *International Journal of Advanced Computer Research*, vol. 13, no. 65, pp. 112–128, 2023.

Doctoral Dissertation

- [1] M. M. Reda Ali, "Adaptive data-mining techniques to support decision-making in the agricultural domain," Ph.D. dissertation, Department of Information Systems, Faculty of Computers and Artificial Intelligence, Fayoum University, Egypt, June 2024.

PROFESSIONAL DEVELOPMENT

Information Systems and Infrastructure Projects

- Agricultural Research Center Information System (ARC IS).
- Research and Development Communication Network Information System (RADCON).
- Virtual Extension and Research Communication Network Information System (VERCON).
- National Agricultural Research Information Management System (NARIMS).
- Bovine Information System (BOVIS).
- General Organization for Veterinary Services Information System (GOVS).
- Egyptian Zoo Development Information System.
- Microchip Identification System for Zoo Animals.
- Agricultural Research Center Information Systems Network.
- Agricultural Research Center Wide Area Network (ARC WAN) for research stations.

SERVICE ACTIVITIES (INTERNAL AND EXTERNAL)

None

TRAINING WORKSHOPS

None

Musab Bassam Yusef Al-Zghoul

Assistant Professor

EDUCATION

- **Ph.D. in Computer Science**, Don State Technical University, Russia, 2009.
Dissertation: "Hybrid Caching Algorithm for Processing and Storing Information Systems."
Grade: Excellent.
- **Master's and Bachelor's Degrees in Software for Computing Technology and Automated Systems**, Faculty of Computer Science, 1999–2005.
Thesis: "Merchandise Accounting System for Small- and Medium-Sized Jordanian Companies."
Grade: Excellent.

ACADEMIC EXPERIENCE (FULL-TIME)

- **2023–Present:** Assistant Professor, Isra University, Jordan.
- **2012–2023:** Assistant Professor and Head, Department of Information Systems, Faculty of Computer Science, Umm Al-Qura University, Saudi Arabia.
- **2009–2012:** Assistant Professor, Faculty of Science and Information Technology, Zarqa University, Jordan.

NON-ACADEMIC EXPERIENCE (FULL TIME)

None

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

- No professional registrations or certifications were listed in the provided curriculum vitae.

PROFESSIONAL ORGANIZATIONS

Professional and Editorial Service

- Member, Technical Committee, International Arab Conference on Information Technology (ACIT).
- Member, Technical Committee, *International Arab Journal of Information Technology* (IAJIT).
- Member, Editorial Board, *International Arab Journal of Information Technology* (IAJIT).

HONORS AND AWARDS

None.

PUBLICATION LIST

- [1] M. Baklizi, M. Alkhazaleh, M. AlShaikh-Hasan, and M. Al-Zghoul, "Artificial intelligence shaping financial decision-making and administrative efficiency," *Al-Basaer Journal of Business Research*, vol. 2, no. 1, 2026.
- [2] M. K. Baklizi, M. Al-Zghoul, and O. A. Alwesabi, "Managing network insurance and risks through 5G technology based on AI-powered wireless mobile systems," in *Cybersecurity Insurance Frameworks and Innovations in the AI Era*, pp. 377–404, 2026.
- [3] M. Baklizi, J. Zraqou, M. Alkhazaleh, I. Atoum, F. Alzyoud, and M. B. Al-Zghoul, "A powerful machine-learning method for detecting phishing threats," *Bulletin of Electrical Engineering and Informatics*, vol. 14, no. 6, pp. 4626–4640, 2025.
- [4] M. Baklizi, M. Alkhazaleh, M. B. Y. Al-Zghoul, A. Maaita, J. Zraqou, *et al.*, "Evaluating the effectiveness of Havij for Structured Query Language injection

- exploitation in web applications,” *Bulletin of Electrical Engineering and Informatics*, vol. 14, no. 6, pp. 4823–4833, 2025.
- [5] A. Q. Ahmad, A. M. Ali, I. Jebreen, A. Nabot, *et al.*, “Feature selection in socioeconomic analysis: A multi-method approach for accurate predictive outcomes,” *International Journal of Crowd Science*, vol. 9, no. 1, pp. 64–78, 2025.
 - [6] A. Al-Qerem, A. M. Ali, I. Jebreen, A. Nabot, S. Nashwan, A. Aldweesh, *et al.*, “Enhancing stroke prediction using generative adversarial networks for intelligent medical care,” *International Journal of Crowd Science*, vol. 8, 2024.
 - [7] S. A. A. Ishtaiwi, A. Ali, A. Al-Qerem, Y. Alsmadi, *et al.*, “Impact of data augmentation on brain tumor detection using different YOLO model versions,” *International Arab Journal of Information Technology*, vol. 21, pp. 466–482, 2024.
 - [8] A. Smadi, A. Al-Qerem, A. Nabot, I. Jebreen, *et al.*, “Unlocking the potential of competency exam data with machine learning: Improving higher education evaluation,” *Sustainability*, vol. 15, no. 6, article 5267, 2023.
 - [9] H. A. H. Ibrahim, O. R. A. Al-Zuobi, A. M. Abaker, and M. B. Al-Zghoul, “A hybrid online classifier system for internet traffic based on a statistical machine-learning approach and flow port number,” *Applied Sciences*, vol. 11, no. 24, article 12113, 2021.
 - [10] N. A. H. Nawaz, M. B. Al-Zghoul, H. R. Malik, O. R. A. Al-Zabi, *et al.*, “Wireless sensor networks simulation model to compute verification time in terms of groups for massive crowds,” *Advances in Science, Technology and Engineering Systems Journal*, vol. 6, no. 1, pp. 1229–1240, 2021.
 - [11] H. R. Malik, N. A. Nawaz, and M. B. Al-Zghoul, “Impact of augmented reality and virtual reality on the transformation of the virtual customer relationship management sector,” in *Proceedings of the 2020 IEEE 7th International Conference on Engineering Technologies and Applied Sciences (ICETAS)*, pp. 1–5, 2020.
 - [12] N. T. Hung, H. T. Viet, L. N. Truong, and M. B. Y. Zghoul, “Identifying the minimum set of persons influenced by a promotion campaign,” in *Proceedings of the International Conference on Future Data and Security Engineering*, pp. 631–639, 2019.
 - [13] M. Najeeb, A. Abdelkader, M. Al-Zghoul, and A. Osman, “A lexicon for Hadith science based on a corpus,” *International Journal of Computer Science and Information Technologies*, vol. 6, no. 2, pp. 1336–1340, 2015.
 - [14] M. M. Najeeb, A. A. Abdelkader, and M. B. Al-Zghoul, “Arabic natural language processing laboratory serving Islamic sciences,” *International Journal of Advanced Computer Science and Applications*, vol. 5, no. 3, 2014.
 - [15] T. H. Ngo and M. B. A. Al-Zghoul, “The framework for studying caching algorithm efficiency,” *CEUR Workshop Proceedings*, 2008.

PROFESSIONAL DEVELOPMENT

- Extensive academic teaching experience in computer science and information systems, including artificial intelligence, machine learning, data mining, databases, cybersecurity, computer vision, programming, algorithms, and computer organization.
- Active participation in quality assurance, academic accreditation, e-learning, learning-outcome development, and distance-education initiatives.

SERVICE ACTIVITIES (INTERNAL AND EXTERNAL)

- **2013–2020:** Head, Department of Information Systems, Umm Al-Qura University.
- Chair, NCAAA Accreditation Committee, College of Computer Science, Umm Al-Qura University.
- Member, Final-Year Projects Committee, Umm Al-Qura University and Zarqa University.
- Chair, Scientific Activities Committee, Faculty of Information Technology, Umm Al-Qura University.
- Member, Examination Timetable Committee, Umm Al-Qura University.

- Academic Advisor, providing academic guidance and support to information technology students.

TRAINING WORKSHOPS

- **An Interactive E-Learning Environment**, Umm Al-Qura University — 4 days.
- **Formulating Program Learning Outcomes in Accordance with the Saudi National Qualifications Framework**, Umm Al-Qura University — 10 hours.
- **Student Interaction and Participation to Enhance the Quality of Distance Learning**, Umm Al-Qura University — 10 hours.
- **The Role of Technology, Innovation, and Crowd Management in Crisis Management**, Umm Al-Qura University — 10 hours.
- **Building Wireless Networks Using D-Link Technology**, D-Link — 30 hours.
- **Orientation Program for Newly Appointed Faculty Members**, Zarqa University — 30 hours.
- **Introduction to Rational Rose**, Building Capacity — 20 hours.
- **Exploring Economics**, INJAZ — 10 hours.
- **Advanced English Course**, Language Center, Zarqa University — 30 hours.
- **Mobile Application Development for Windows 7**, Microsoft — 30 hours.

Mohammad Abdelkarim Khadam Alkhaza'leh

Assistant Professor

EDUCATION

- **Ph.D. in Computer Engineering (Computer Networks)**, Universiti Malaysia Perlis (UniMAP), Malaysia, 2017–2021.
- **M.S. in Computer Science**, Middle East University for Graduate Studies (MEU), Jordan, 2009–2011.
- **B.S. in Information Technology and Computing**, Arab Open University (AOU), Jordan, 2004–2009.

ACADEMIC EXPERIENCE (FULL-TIME)

Academic Experience

- **2022–Present:** Assistant Professor, Department of Computer Science, College of Information Technology, Isra University, Jordan.
- **2011–2016:** Lecturer, Faculty of Applied Studies and Continuing Education, Al-Baha University, Saudi Arabia.

Teaching Areas

- Databases and web design.
- Intrusion detection and privacy-aware computing.
- Computer architecture and operating systems.
- Human–computer interaction.
- Network monitoring and documentation.
- Computer networks and server programming.
- Programming fundamentals.
- Object-oriented and visual programming.
- Software engineering and project management.
- Algorithms and data structures.
- Artificial intelligence.
- Graduation projects.

NON-ACADEMIC EXPERIENCE (FULL TIME)

- **2009–2011:** Teacher, Ministry of Education, Jordan.

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

- Oracle Developer 10g and Building Internet Applications Certificate, 2008.

PROFESSIONAL ORGANIZATIONS

- Member, Institute of Electrical and Electronics Engineers (IEEE).

HONORS AND AWARDS

- **Certificate of Reviewer Recognition**, 2nd International Conference on Computational Intelligence Approaches and Applications (ICCIAA 2026), awarded for completing seven manuscript reviews.

PUBLICATION LIST

1. M. Baklizi, M. Alkhazaleh, and L. Al Sardy, "Data-driven modelling and estimation of global cyberattack impact using expanded machine-learning analysis," in *Proceedings of the 2nd International Conference on Computational Intelligence Approaches and Applications (ICCIAA)*, IEEE, 2026.
2. M. Baklizi, M. Alkhazaleh, and L. Al Sardy, "Machine-learning models for SQL injection detection: A comparative analysis and hybrid framework proposal," in *Proceedings of the*

- 2nd International Conference on Computational Intelligence Approaches and Applications (ICCIAA)*, IEEE, 2026.
3. M. Alkhazaleh, M. Baklizi, and L. Al Sardy, "Securing the digital playground: Privacy and data-protection frameworks for gamified urban interventions," IGI Global Scientific Publishing, 2026. DOI: [10.4018/979-8-3373-5901-4.ch001](https://doi.org/10.4018/979-8-3373-5901-4.ch001).
 4. M. Baklizi, M. Alkhazaleh, M. AlShaikh-Hasan, and M. Zghoul, "Artificial intelligence shaping financial decision-making and administrative efficiency," *Al-Basaer Journal of Business Research*, vol. 2, no. 4, 2026. DOI: [10.71202/paper51](https://doi.org/10.71202/paper51).
 5. M. Baklizi, M. Alkhazaleh, M. B. Y. Alzghoul, A. Maaita, J. Zraqou, and M. AlShaikh-Hasan, "Evaluating the effectiveness of Havij for Structured Query Language injection exploitation in web applications," *Bulletin of Electrical Engineering and Informatics*, vol. 14, no. 6, pp. 4823–4833, 2025. DOI: [10.11591/eei.v14i6.10751](https://doi.org/10.11591/eei.v14i6.10751).
 6. M. Baklizi, J. Zraqou, M. Alkhazaleh, I. Atoum, F. Alzyoud, and M. B. Alzghoul, "A powerful machine-learning method for detecting phishing threats," *Bulletin of Electrical Engineering and Informatics*, vol. 14, no. 6, pp. 4626–4640, 2025. DOI: [10.11591/eei.v14i6.9579](https://doi.org/10.11591/eei.v14i6.9579).
 7. M. K. Baklizi, I. Atoum, M. Alkhazaleh, H. Kanaker, N. Abdullah, O. A. Al-Wesabi, and A. A. Ootom, "Web attack intrusion-detection system using machine-learning techniques," *International Journal of Online and Biomedical Engineering*, vol. 20, no. 3, pp. 24–38, 2024. DOI: [10.3991/ijoc.v20i03.45249](https://doi.org/10.3991/ijoc.v20i03.45249).
 8. M. Alkhazaleh, S. A. Aljunid, and N. Sabri, "An efficacious content caching and eviction priorities (CCEP) approach for high-performance in-network caching in information-centric networking," *IAENG International Journal of Applied Mathematics*, vol. 53, no. 1, 2023.
 9. M. Alkhazaleh, S. A. Aljunid, and N. Sabri, "A comprehensive survey of information-centric networks from the perspective of content-caching strategies," *Journal of Critical Reviews*, vol. 7, no. 4, pp. 2272–2287, 2020.
 10. M. Alkhazaleh, S. A. Aljunid, and N. Sabri, "A review of caching strategies and their categorizations in information-centric networks," *Journal of Theoretical and Applied Information Technology*, vol. 97, no. 19, pp. 4996–5011, 2019.

PROFESSIONAL DEVELOPMENT

- **Graduate Supervision:** Co-supervisor and examination committee member for the M.S. thesis titled "Automated Requirements Reuse Using Machine-Learning Techniques," Isra University. The thesis was successfully defended and approved in August 2025.
- **Peer-Review Activities:** Reviewer for *Applied Artificial Intelligence, Engineering, Technology & Applied Science Research (ETASR)*, IGI Global Scientific Publishing, and the International Conference on Computational Intelligence Approaches and Applications (ICCIAA).

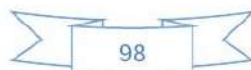
SERVICE ACTIVITIES (INTERNAL AND EXTERNAL)

Internal Academic and Administrative Service

- **2022–Present:** Chair, Educational Program Effectiveness Measurement Committee, Faculty of Information Technology, Isra University.
- **2022–Present:** Member, Examinations and Qualification Examination Committee, Faculty of Information Technology, Isra University.
- **2022–2024:** Member, Student Affairs Committee, Faculty of Information Technology, Isra University.
- Liaison Officer between Isra University and the Ministry of Higher Education and Scientific Research through the Bekhedmetkom platform.
- IEEE Student Branch Counselor, Isra University.

Peer-Review Service

- **2023–Present:** Reviewer, *Applied Artificial Intelligence*.



- **2024–Present:** Reviewer, *Engineering, Technology & Applied Science Research* (ETASR).
- **2025–2026:** Book Chapter Reviewer, IGI Global Scientific Publishing.
- **2026:** Reviewer, 2nd International Conference on Computational Intelligence Approaches and Applications (ICCIAA); completed seven manuscript reviews.

TRAINING WORKSHOPS

- **Certificate of Participation**, Image Quality Assessment Webinar, September 2020.
- **Certificate of Participation**, “The Role of Biometrics in the Post-COVID-19 Era” Webinar, August 2020.
- **Certificate of Participation**, IEEE Webinar, “Incorporating a Large Number of Antennas into a Terminal: Issues and Challenges,” June 2020.
- **Certificate of Participation**, Thesis Writing Workshop, February 2018.
- **Certificate of Participation**, Orientation Session, February 2018.

Yasser Ibrahim Abdulmunem Ali

Assistant Professor

EDUCATION

- **Ph.D. in Computer Science**, Department of Mathematics and Computer Science, Faculty of Science, Al-Azhar University, Cairo, Egypt, September 2018–April 2022. **Dissertation:** “Cybersecurity Intelligent Agent for More Efficient Social Networks.”
- **M.Sc. in Computer Science**, Department of Mathematics and Computer Science, Faculty of Science, Al-Azhar University, Cairo, Egypt, September 2014–July 2018. **Thesis:** “Towards Improving Web Image Retrieval.”
- **Pre-Master’s Coursework in Pure Mathematics and Computer Science**, Department of Mathematics and Computer Science, Faculty of Science, Al-Azhar University, Cairo, Egypt, October 2013–October 2014.
- **B.Sc. in Mathematics and Computer Science**, Faculty of Science, Al-Azhar University, Nasr City, Cairo, Egypt, September 2005–July 2009. **Overall Grade:** Very Good.

ACADEMIC EXPERIENCE (FULL-TIME)

- **October 10, 2025–Present:** Assistant Professor, Department of Cybersecurity, Faculty of Information Technology, Isra University, Amman, Jordan.
- **December 1, 2022–Present:** Lecturer, Department of Mathematics and Computer Science, Faculty of Science, Al-Azhar University, Cairo, Egypt.
- **October 4, 2018–December 1, 2022:** Assistant Lecturer, Department of Mathematics and Computer Science, Faculty of Science, Al-Azhar University, Cairo, Egypt.
- **March 26, 2012–October 4, 2018:** Teaching Assistant, Department of Mathematics and Computer Science, Faculty of Science, Al-Azhar University, Cairo, Egypt.

NON-ACADEMIC EXPERIENCE (FULL TIME)

- **May 2019–Present:** Software Team Lead, Principal Company (outsourcing partner for ITWorx). Led software development for MazeEdit and related systems.
- **June 2016–May 2019:** Software and Mobile Application Developer, Principal Company (outsourcing partner for ITWorx). Contributed to the following applications:
 - ✓ CLG Tracker and CLG App.
 - ✓ WinjiGo TeacherKit, StudentKit, and ParentKit.
 - ✓ LearningCurve.
 - ✓ TeacherKit Class Manager, Student, and Parent applications.

Technologies: Android, Retrofit, RxJava, Glide, Git, QuickBlox, Parse SDK, Dagger, SQLite, and mobile–backend integration tools.

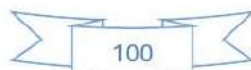
- **May 2011–September 2013:** Java Developer, Unisoft. Contributed to the SQCATS bug-tracking system and CodeScent static code-analysis tool. Developed chart-based information views, maintained SVN integration, applied static code analysis, complexity analysis, and change metrics.

Technologies: Java SE, JSF, JavaFX, XML, Subversion, DOM, and SAX.

- **March 2010–May 2011:** Junior Java Developer, 4S Systems. Developed maintenance, fleet-management, and transportation-workflow applications.

Technologies: J2EE, JSP, Servlets, Apache Tomcat, and Oracle 9i.

- **2009–2018:** Freelance and Project-Based Software Developer. Developed systems and applications including:
 - ✓ Restaurant workflow and inventory-management system.
 - ✓ Book Course Central.
 - ✓ Rawdaty.
 - ✓ Be3ha.
 - ✓ Approved Market.
 - ✓ Scholarship.



✓ Magles.

Selected Published Applications and Platforms

- MazeEdit.
- TawsiatOnline.
- NBS Egypt.
- Caribou Coffee application.
- 7-Eleven application.
- Academy Nobel application.
- LMS, MIS, and HJIS tracking applications.
- TeacherKit applications.
- WinjiGo applications.
- Motivus Sovalue.

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

None

PROFESSIONAL ORGANIZATIONS

None

HONORS AND AWARDS

None

PUBLICATION LIST

- [1] S. J. Al-Mohammed, Y. I. Abdelmonem, N. E. Mohammed, and M. Abdel Razek, "Building a large Arabic language model (LLM) from the intellectual heritage of Al-Azhar University," pending publication.
- [2] Y. I. A. Ali, M. Abdel Razek, and N. El-Sherbeny, "Social cybercriminals: Towards automatic real-time recognition of malicious posts on Twitter," *Indonesian Journal of Electrical Engineering and Computer Science*, vol. 25, no. 2, pp. 1199–1207, February 2022.
- [3] Y. I. A. Ali, M. Abdel Razek, and N. El-Sherbeny, "Dominant meaning technique for detecting social criminal posts on Twitter," in *Proceedings of the 5th International Conference on Computing and Informatics (ICCI 2022)*, IEEE, March 9, 2022, pp. 187–193.
- [4] Y. I. A. Ali, M. Abdel Razek, and N. El-Sherbeny, "Dominant meaning with SCVs for classifying hate speech on Twitter," submitted to the *Indonesian Journal of Electrical Engineering and Computer Science*; under review.
- [5] Y. Ibrahim, M. Abdel Razek, and K. A. ElDahshan, "Towards a more efficient web image search engine using the dominant meaning technique," *International Journal of Computer Trends and Technology*, vol. 54, no. 2, pp. 91–96, December 2017. ISSN: 2231-2803.

PROFESSIONAL DEVELOPMENT

Conference Participation

- Participant, 5th International Conference on Computing and Informatics (ICCI 2022), Future University in Egypt, New Cairo, Egypt, March 9–10, 2022.

Software and Technical Skills

- **Programming Languages:** Java, Python, C#, PHP, SQL, HTML, and CSS.
- **Web and Enterprise Technologies:** Spring Boot, Angular, .NET Core, Entity Framework, J2EE, EJB, Servlets, JSP, JSF, Hibernate, JPA, and XML.
- **Mobile Development:** Android, Flutter, Ionic, Retrofit, Glide, QuickBlox, OpenTok, and Parse Server.

- **Databases and Search Platforms:** MySQL, Oracle 11g, Microsoft SQL Server, and Apache Solr.
- **Artificial Intelligence:** TensorFlow.
- **Desktop Development:** JavaFX.
- **Cloud and Systems Administration:** Heroku and Ubuntu/Linux administration.

SERVICE ACTIVITIES (INTERNAL AND EXTERNAL)

- **March 2012–Present:** Provided teaching support and course delivery at Al-Azhar University, including the Introduction to Information Technology course.
- **Software Development:** Contributed to Book Course Central and the testing and auditing of Version 2.0 of the Al-Azhar University Coordination System through the Software Development Department, Information Systems and Networks Unit.
- **University Software Projects:** Designed and supported university-related systems, including Scholarship and Magles, featuring mobile and web interfaces.

TRAINING WORKSHOPS

- **February–May 2008:** Java Developer, Post Office Central Training Project, Al-Azhar University, Nasr City, Cairo, Egypt.
- **Project Scope:** Developed an internal system for distributing correspondence and managing postal workers' tasks.
- **Technology:** Java.

Ali Farouk Mohamed Emara

Assistant Professor

EDUCATION

- **Ph.D. in Computer Science**, Department of Mathematics and Computer Science, Faculty of Science, Al-Azhar University, Nasr City, Cairo, Egypt, March 2022.
Dissertation: "Efficient Schemes for Data and Resource Management in Mobile Cloud Computing."
- **M.Sc. in Computer Science**, Department of Mathematics and Computer Science, Faculty of Science, Al-Azhar University, Nasr City, Cairo, Egypt, June 2016.
Thesis: "Quality of Service Management in Mobile Cloud Computing."
- **Diploma in .NET Development**, Information Technology Institute, Ministry of Communications and Information Technology, Mansoura Branch, Egypt, June 2012.
- **B.Sc. in Pure Mathematics and Computer Science**, Department of Mathematics and Computer Science, Faculty of Science, Al-Azhar University, Nasr City, Cairo, Egypt, May 2008.
Overall Grade: Very Good with Honors (83.4%).

ACADEMIC EXPERIENCE (FULL-TIME)

- **February 2026–Present:** Assistant Professor of Computer Science (Secondment, Full-Time), Isra University, Amman, Jordan.
- **July 2022–Present:** Assistant Professor of Computer Science, Al-Azhar University, Nasr City, Cairo, Egypt.
- **October 2024–February 2026:** Assistant Professor of Computer Science (Secondment), Thebes Higher Institute for Computer and Management Sciences, Maadi Branch, Cairo, Egypt.
- **October 2022–October 2024:** Assistant Professor of Computer Science (Secondment), Higher Technological Institute, 10th of Ramadan City, Sharqia, Egypt.
- **October 2022–October 2023:** Assistant Professor of Computer Science (Secondment), Higher Institute for Computer and Management Information Systems, First Settlement, Cairo, Egypt.
- **October 2016–July 2022:** Assistant Lecturer of Computer Science, Al-Azhar University, Nasr City, Cairo, Egypt.
- **February 2012–October 2016:** Demonstrator of Computer Science, Al-Azhar University, Nasr City, Cairo, Egypt.

NON-ACADEMIC EXPERIENCE (FULL TIME)

None

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

- **Diploma in .NET Development**, Information Technology Institute, Mansoura Branch, Egypt, June 2012.

PROFESSIONAL ORGANIZATIONS

None

HONORS AND AWARDS

None

PUBLICATION LIST

Journal Publications

- [1] M. I. Abdewi, F. A. Emara, A. A. Gouda, and M. A. Razek, "AI-based cryptography: A comprehensive review of adaptive encryption, neural cryptanalysis, and post-quantum resilience," *Engineering, Technology & Applied Science Research*, vol. 16, no. 2, pp. 33790–33797, April 2026. DOI: [10.48084/etasr.16510](https://doi.org/10.48084/etasr.16510).
- [2] F. A. Emara, A. A. A. Gad-Elrab, A. Sobhi, A. S. Alsharkawy, M. E. Embabi, and M. A. Abd El-Baky, "Multi-objective task-scheduling algorithm for load balancing in cloud computing based on improved Harris Hawks optimization," *Journal of Supercomputing*, vol. 81, no. 6, pp. 1–38, 2025. DOI: [10.1007/s11227-025-07091-3](https://doi.org/10.1007/s11227-025-07091-3).
- [3] K. K. Ali, M. S. Mohamed, A. A. E. Ibrahim, F. A. Emara, and H. A. El Shenbary, "Existence, uniqueness, and neural-network approximation for non-local Riemann fractional q-integro-differential equations," *International Journal of Computer Mathematics*, pp. 1–26, 2025. DOI: [10.1080/00207160.2025.2573733](https://doi.org/10.1080/00207160.2025.2573733).
- [4] A. A. A. Gad-Elrab, A. S. Alsharkawy, M. E. Embabi, A. Sobhi, and F. A. Emara, "Adaptive multi-criteria-based load-balancing technique for resource allocation in fog-cloud environments," *International Journal of Computer Networks and Communications*, vol. 16, no. 1, pp. 105–124, 2024. DOI: [10.5121/ijcnc.2024.16107](https://doi.org/10.5121/ijcnc.2024.16107).
- [5] F. A. Emara, A. A. A. Gad-Elrab, A. Sobhi, and K. R. Raslan, "Genetic-based multi-objective task-scheduling algorithm in a cloud-computing environment," *International Journal of Intelligent Engineering and Systems*, vol. 14, no. 5, pp. 571–583, 2021. DOI: [10.22266/ijies2021.1031.50](https://doi.org/10.22266/ijies2021.1031.50).
- [6] A. A. A. Gad-Elrab, T. A. Alzohairy, K. R. Raslan, and F. A. Emara, "Genetic-based task-scheduling algorithm with dynamic virtual-machine generation in cloud computing," *International Journal of Computing*, vol. 20, no. 2, pp. 165–174, 2021. DOI: [10.47839/ijc.20.2.2163](https://doi.org/10.47839/ijc.20.2.2163).
- [7] A. A. A. Gad-Elrab and F. A. Emara, "Adaptive scheme for application-method offloading in mobile cloud computing," *International Journal of Computer Science and Information Security*, vol. 15, no. 2, pp. 332–339, February 2017.
- [8] A. A. A. Gad-Elrab, T. A. A. Alzohairy, and F. A. Emara, "Application method-based efficient offloading scheme in mobile cloud computing," *International Journal of Computer Applications*, vol. 132, no. 3, pp. 1–8, December 2015. DOI: [10.5120/ijca2015907304](https://doi.org/10.5120/ijca2015907304).

Conference Publications

- [1] M. A. Abdewi, F. A. Emara, A. A. Gouda, and M. A. Razek, "Privacy-preserving intrusion detection in operational technology networks using a CKKS-based homomorphic support vector," presented at the *10th International Scientific Conference of Al-Azhar University for Basic Sciences (ISCAZ)*, Cairo, Egypt, April 4–6, 2026.
- [2] M. A. Abdewi, F. A. Emara, A. A. Gouda, and M. A. Razek, "Securing sensitive information using AI-based encryption solutions," presented at the *6th International Conference on Mathematics and Its Applications: Artificial Intelligence and Computational Mathematics (ICMA 2024)*, Smart Village Campus, Cairo, Egypt, November 30–December 1, 2024.
- [3] A. A. A. Gad-Elrab, T. A. A. Alzohairy, and F. A. Emara, "Application decision-making-based scheme for method offloading in mobile cloud-computing environments," presented at the *5th International Conference on Mathematics and Information Sciences (ICMIS 2016)*, Cairo, Egypt, February 11–13, 2016.

PROFESSIONAL DEVELOPMENT

None

SERVICE ACTIVITIES (INTERNAL AND EXTERNAL)

None

TRAINING WORKSHOPS

None

Dr. Baha' Abughazaleh

Assistant Professor of Mathematics

EDUCATION

1. Ph.D. in Mathematics (Algebraic Graph Theory), The University of Jordan
2. M.Sc. in Mathematics, The University of Jordan
3. B.Sc. in Mathematics, The Hashemite University

ACADEMIC EXPERIENCE (FULL-TIME)

1. Assistant Professor, Department of Mathematics, Isra University (2021–Present)
2. Lecturer, Department of Mathematics, University of Petra (2016–2021)
3. Mathematics Teacher, Ministry of Education, Jordan (5 Years)

NON-ACADEMIC EXPERIENCE (FULL TIME)

None

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

None

PROFESSIONAL ORGANIZATIONS

None

HONORS AND AWARDS

None

PUBLICATION LIST

- [1] B. Abughazaleh, O. A. Abughneim, and H. Al-Ezeh, "On co-well-covered graphs," *Communications of the Korean Mathematical Society*, vol. 35, no. 2, pp. 359–370, 2020.
- [2] M. A. Amleh, B. Abughazaleh, and A. Al-Natoor, "Conformable fractional Lomax probability distribution," *Journal of Mathematical and Computational Science*, vol. 12, 2022.
- [3] B. Abughazaleh and O. A. Abughneim, "The independence and independent domination numbers of the total graph of a finite commutative ring," *Communications of the Korean Mathematical Society*, vol. 37, no. 4, pp. 969–975, 2022.
- [4] B. Abughazaleh and O. A. Abughneim, "Semi-square-stable graphs and efficient dominating sets," *Transactions on Combinatorics*, vol. 12, no. 2, pp. 107–113, 2023.
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PROFESSIONAL DEVELOPMENT

None

SERVICE ACTIVITIES (INTERNAL AND EXTERNAL)

None

TRAINING WORKSHOPS

None



LECTURERS

FACULTY VITAE

2 faculty members | Final pages 116-121

Khalil Barhoum

Lecturer

EDUCATION

- **Master of Science (M.Sc.) in Computer Science**, New York Institute of Technology, 2005.
GPA: 3.8/4.0 — Distinction.
- **Bachelor of Science (B.Sc.) in Electrical Engineering**, majoring in Computer Engineering, Technical University of Budapest, 1992.
GPA: 4.33/5.0.

ACADEMIC EXPERIENCE (FULL-TIME)

Academic Experience

- **2007–Present:** Class A Lecturer, Isra University, Jordan.

Courses Taught:

- ✓ Object-Oriented Programming, Advanced Java, Data Structures, Advanced Computer Skills, and E-Learning Systems.
- ✓ Software Development Techniques, Object-Oriented Software Engineering, Software Requirements Engineering, Software Fault Tolerance, Human–Computer Interaction, and CASE Tools.
- ✓ Operating Systems, Database Design, Computer Architecture, and Information Retrieval.

- **2005–2007:** Lecturer, New York Institute of Technology.

Courses Taught:

- ✓ Computer Programming I and II.
- ✓ Application Program Development.
- ✓ Computer Organization and Computer Architecture.
- ✓ Database Program Development.
- ✓ Information Systems Seminar.

Additional Responsibilities:

- ✓ Served as an academic advisor for Management Information Systems, Computer Science, and Information Technology students.

- **1998–2003:** Instructor, Heald Technical College, California, United States.

Courses Taught:

- ✓ Visual Basic, C, C++, VB.NET, Java, and Microsoft Office.
- ✓ Database Programming, Computer Networks, and Operating Systems.
- ✓ A+ Certification Preparation and PC Troubleshooting.
- ✓ Algebra and the fundamentals and analysis of AC/DC electrical circuits, including laboratory instruction.

Additional Responsibilities:

- ✓ Served as a member of the Curriculum Development Committee.
- ✓ Served as an administrator and advisor for technical-program graduation projects.

NON-ACADEMIC EXPERIENCE (FULL TIME)

Administrative and Leadership Experience

- **2025–2026:** Director, Center for E-Learning, and Acting Director, Center for Faculty Performance Development.

Key Responsibilities:

- ✓ Led and managed the E-Learning Center, including staff recruitment, performance evaluation, professional development, and work scheduling.

- ✓ Installed, configured, integrated, and maintained Moodle LMS, e-portfolio, and web-conferencing systems on Ubuntu/Linux servers.
- ✓ Administered Moodle, virtual classrooms, e-portfolios, and e-learning authoring tools.
- ✓ Designed and delivered e-learning workshops, seminars, and training programs for university staff.
- ✓ Developed support services to help students use e-learning tools effectively.
- ✓ Implemented SCORM-compliant authoring packages to produce engaging and interactive digital learning resources.
- ✓ Trained academic staff to use e-learning authoring tools for interactive content development.
- ✓ Provided operational, academic, and strategic leadership for the development of university e-learning services.
- ✓ Promoted technology-enhanced learning and evaluated its impact on students' learning experiences.
- ✓ Advised faculty members on the pedagogical value and effective use of emerging educational technologies.
- ✓ Provided individual and group support to academic staff using educational technologies.
- ✓ Conducted research on enhanced technology learning and contributed to related research publications.
- ✓ Chaired a university committee addressing e-learning and technology-supported teaching and learning.
- ✓ Developed and implemented financial plans for the E-Learning Center.
- ✓ Developed the *Guide to Effective E-Learning*.
- ✓ Established procedures for developing high-quality electronic learning content.
- ✓ Developed a framework for integrating e-learning with face-to-face education at Isra University.
- ✓ Contributed to decisions and plans concerning the center's long-term strategic objectives.
- ✓ Represented the university at e-learning conferences, seminars, workshops, and other professional events.

Technical Experience

- **1992–1998:** Computer Systems Technician, K&H Kft., Hungary.
 - ✓ Installed, maintained, and serviced computer systems.

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

Professional Certification

- **Master Online Teacher Certificate**, University of Illinois, United States, 2014.

A comprehensive faculty-development program focused on online course design, digital instruction, student assessment, and effective online teaching and learning.

Completed Modules:

- ✓ Online Learning: An Overview.
- ✓ Instructional Design for Online Course Development.
- ✓ Student Assessment in Online Courses.
- ✓ Technology Tools for Online Learning.
- ✓ Practicum.
- ✓ Blended and Hybrid Learning Design and Instruction.

PROFESSIONAL ORGANIZATIONS

None

HONORS AND AWARDS

- **2022:** Certificate of Appreciation from the Dean of the College of Pharmacy in recognition of distinguished contributions to quality assurance activities.
- **2020:** Certificate of Appreciation from the President of Isra University for contributions to quality assurance activities at the Faculty of Information Technology.
- **2020:** Certificate of Appreciation from the Dean of the College of Information Technology in recognition of distinguished contributions to the college's quality assurance activities.
- **2014:** Letter of Commendation from the Arab Organization for Quality Assurance in Education (AROQA) for valued participation in the founding meeting of e-learning experts supporting the adoption of digital education in Jordan and the Arab world.
- **2013:** Letter of Commendation from Isra University for outstanding performance and significant improvement of the Center for E-Learning.
- **2013:** Promoted from Class B Lecturer to Class A Lecturer at Isra University.
- **2005:** Graduated with honors with an M.Sc. in Computer Science, achieving a GPA of 3.8/4.0.
- **2000:** Instructor of the Year, Heald College, California, United States.
- **1990:** Outstanding Student Certificate, Budapest University of Technology, Hungary.

PUBLICATION LIST

- [1] K. A. Barhoum, Z. F. Muhsin, A. Maaita, and A. Nsour, "Risks and remedies in Isra University's e-learning system," *International Journal of Emerging Technologies in Learning (iJET)*. ISSN: 1863-0383.
- [2] A. Alnsour, Z. Muhsen, M. Dababnah, M. A. Eljinini, K. Barhoum, M. Ahed, H. Almara'beh, M. A. Azzam, and I. W. Kamal, "Implementing Moodle as a tool to develop the Isra University e-learning system," *International Journal of Computer Science and Network Security*, vol. 11, no. 6, June 2011.
- [3] A. Alnsour, Z. Muhsen, M. A. H. Eljinini, M. Dababneh, K. Barhoum, M. A. Hammoudeh, and M. Ahed, "Managing the e-learning system of Isra University," *European Journal of Scientific Research*, vol. 55, no. 3, 2011.
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PROFESSIONAL DEVELOPMENT

University of Illinois Online Courses — Eight Continuing Education Units (CEUs) Each

- Practicum.
- Blended and Hybrid Learning Design and Instruction.
- Technology Tools for Online Learning.
- Student Assessment in Online Courses.
- Instructional Design for Online Course Development.
- Online Learning: An Overview.

Technical Training

- **Intensive Field Training**, Pioneers Training Academy — 55 hours. Covered Linux operating systems, PHP, MySQL, and advanced AJAX techniques using JavaScript and XML.

Faculty Development

- **Faculty Training Course**, Heald College, Radisson Hotel, Berkeley, California, United States. Topics included:
 - ✓ Lesson design and cooperative learning.
 - ✓ Instructional planning and task analysis.
 - ✓ Critical thinking and active student participation.
 - ✓ Teaching to specified learning objectives.
 - ✓ Providing directions and explanations.
 - ✓ Monitoring and adjusting instruction.
 - ✓ Classroom management and decision-making.
 - ✓ Developing positive relationships with students.
 - ✓ Bloom's taxonomy and cognitive learning levels.
 - ✓ Experiential learning models.
- **Customer Service Success Seminar**, Heald College, Milpitas, California, United States. Focused on developing effective customer service and relationship-management skills.
- **Blackboard Seminar**, Heald College, California, United States. Focused on implementing and using the Blackboard learning-management system in teaching and learning.

SERVICE ACTIVITIES (INTERNAL AND EXTERNAL)

- Member, Monitoring and Auditing Committee.
- Member, Personnel Affairs Committee.
- Member, University Website Committee.
- Member, E-Learning and Face-to-Face Education Integration Committee.
- Member, Emergency Committee.
- Member, Committee for Auditing E-Learning Integration Rates within Face-to-Face Education.
- Member, QS University Rankings Committee.
- Member, various investigation committees.
- Member, Committee for Aligning Academic Programs with the National Qualifications Framework.
- Member, Computer Center Council.
- Member, E-Learning Center Council.

TRAINING WORKSHOPS

- **Quality Evaluator Certificate for Higher Education Institutions**, Higher Education Accreditation Commission.
- **National Capacity-Building Course for E-Learning Development in Higher Education Institutions**, Ministry of Higher Education and Scientific Research.
- **Effective E-Learning Design Course**, Queen Rania Teacher Academy.

Thara' Fayiz Abdel Rahman Akailleh

Lecturer

EDUCATION

- **M.Sc. in Computer Science**, Yarmouk University, Jordan, 2022.
Thesis: "Automatic Jordanian License Plate Detection and Recognition System Using Deep Learning Techniques."
GPA: 91.0% — Excellent.
Rank: 1st.
- **B.Sc. in Computer Science**, Yarmouk University, Jordan, 2018.
Graduation Project: "Electric Vehicle Charger."
GPA: 83.8% — Very Good.
Rank: 4th.

ACADEMIC EXPERIENCE (FULL-TIME)

Academic Experience

- **November 2025–Present:** Full-Time Instructor, Undergraduate Computer Science Program, Department of Computer Science, Isra University, Amman, Jordan.

Courses Taught

- Logic Design.
- Programming Fundamentals using C#.
- Information Systems Analysis.
- Visual Programming.
- Python Programming.
- English for Information Technology Students.

NON-ACADEMIC EXPERIENCE (FULL TIME)

- None

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

- **CPE – C++ Certified Entry-Level Programmer (CPE-20-01)**, OpenEDG C++ Institute, May 2026.
- **PCEP™ – Certified Entry-Level Python Programmer**, OpenEDG Python Institute, April 2026.
- **Data Science and Artificial Intelligence Training Program**, New Horizons Apex (DigiSkills), fully funded by the Ministry of Digital Economy and Entrepreneurship — 100 training hours, April 2025.
- **Certified Data Science Practitioner (CDSP)**, DigiSkills Association and New Horizons Apex, May 2025.
- **Data Ethics for Business Professionals**, DigiSkills Association and New Horizons Apex, May 2025.
- **Designing and Implementing a Data Science Solution**, DigiSkills Association and New Horizons Apex, May 2025.
- **Python for Data Science**, DigiSkills Association and New Horizons Apex, May 2025.
- **Advanced Programming with Python**, DigiSkills Association and New Horizons Apex, May 2025.
- **Introduction to Programming with Python**, DigiSkills Association and New Horizons Apex, May 2025.
- **English for Business—Information Technology**, DigiSkills Association and New Horizons Apex, May 2025.
- **Soft Skills**, DigiSkills Association and New Horizons Apex, May 2025.

PROFESSIONAL ORGANIZATIONS

- Association of Arab Universities (Workshop Participant)
- DigiSkills Association (Program Participant)

HONORS AND AWARDS

- Ranked 1st in the M.Sc. Computer Science Program, Yarmouk University (GPA: 91.0/100).
- Ranked 4th in the B.Sc. Computer Science Program, Yarmouk University (GPA: 83.8/100).

PUBLICATION LIST

- T. Aqaileh and F. Alkhateeb, "Automatic Jordanian license plate detection and recognition system using deep learning techniques," *Journal of Imaging*, vol. 9, no. 10, article 201, 2023. DOI: [10.3390/jimaging9100201](https://doi.org/10.3390/jimaging9100201).

PROFESSIONAL DEVELOPMENT

- **Data Science and Artificial Intelligence Training Program**, Ministry of Digital Economy and Entrepreneurship, DigiSkills, and New Horizons Apex — 100 training hours, 2024–2025.
- **AI Vibe Coding in Action: Transforming Teaching, Learning, Research, and Services in Higher Education**, Abu Dhabi University and the Association of Arab Universities, February 2026.

SERVICE ACTIVITIES (INTERNAL AND EXTERNAL)

- Delivery of undergraduate courses within the Department of Computer Science.
- Academic advising and educational support for undergraduate students.
- Active participation in departmental academic activities and student-support initiatives.

TRAINING WORKSHOPS

- **Designing Blended and Face-to-Face Courses**, Isra University, Amman, Jordan, May 2026. Focused on designing courses that combine face-to-face lectures and online sessions within the same academic week.
- **Moodle System Training for Instructors**, Isra University, Amman, Jordan, May 2026.
- **AI Vibe Coding in Action: Transforming Teaching, Learning, Research, and Services in Higher Education**, Abu Dhabi University and the Association of Arab Universities, February 12, 2026.
- **Data Science and Artificial Intelligence Training Program**, DigiSkills Association and New Horizons Apex, December 2024–April 2025 — 100 training hours.