

CV

Dr. Mohammad Mahmoud Abu Omar
B. Eng, Msc, Ph.D. (Information Systems)

An- Najah National University, Nablus, Palestine

Personal

Name: Dr. Mohammad Mahmoud Abu Omar

Material Status: Married

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Education

Doctor of Philosophy (Ph.D.)	
Major	Information Systems / [With Distinction]
Thesis	Developing a New Integrated Model for Building Management Information Systems to Solve Management Problems by Using Classical Approach
University	Limkokwing University of Creative Technology, Malaysia
Year	2016
Master of Science (MSc)	
Major	Scientific Computing
Thesis	Using C Language on Scientific Computing Applications
University	Birzeit University, Palestine
Year	2007
Bachelor's Degree in Engineering	
Major	Electronics & Computer Engineering
University	Al-Quds University, Jerusalem, Abu Dees, Palestine
Year	2004

Academic Experience

One	University	An-Najah National University, Nablus- Palestine				
	URL	https://www.najah.edu/en/				
	Faculty	<p>- Faculty of Graduate Studies Program Coordinator of the Master of Business Intelligence & Data Analytics.</p> <p>- Faculty of Business & Communication Assistant Professor - Business Intelligence (BI) Department</p>				
	Period	From: 1/6/2021 - Present				
	Courses	Introduction to Business Intelligence (BI)	Python Programming	Data Analytics using Python	Big Data Analytics Master Level	Data Mining
		Machine Learning and Data Analytics Master- Level	Big Data Analytics Using Python	Introduction To MIS	Business Intelligence Master Level	MIS Master Level
		Decision Support Systems (DSS) Master- Level	Using AI / ML in Digital Marketing Master-Level	Machine Learning (ML)	Machine Learning & Data Analytics Master-Level	Data Analytics using Python Master-Level
		Internet Programming	Web Programming (1)	Web Programming (2) - PHP	Visual Basic .NET Programming	Information Systems Master Level
Digital Marketing		Technical Reports Writing	Computer Science & Skills	Information Security Policies	SEO & UX Master Level	
Computer Applications in Marketing		AI Applications in Veterinary & Agricultural Sciences Master Level	Math for Business	Statistics for Business	Math for IT	
Link		https://staff.najah.edu/en/profiles/2842/				
Two	University	Al-Quds Open University, Palestine				
	Faculty	Technology & Applied Sciences				
	Position	Lecturer and then Assistant Professor of Information Systems & MIS				
	Period	1/9/2008 To 31/5/2021				

Three	University	Palestine Technical University- Kadoorie, Palestine
	Faculty	Faculty of Business & Faculty of Engineering
	Position	Lecturer
	Period	1/9/2007 To 31/8/2008

Remotely Academic Experience

University	Accord University for Postgraduate Studies – Somalia- Mogadishu
URL	https://accord.edu.so/
Mode of Study in the University	1- Campus (face-to-face) 2- e-Learning
Type of Work	Remotely
Position & Tasks	1- Chairperson Graduate Program. 2- Teaching Several Courses in the Master's Program in Information Management Systems/Data Analysis/ Data Mining. 3- Supervising Students and PhD Thesis. 4- Chairperson of Thesis Defense Sessions.
Period	From 1/9/2021 - 30/12/2024
Link	https://accord.edu.so/course-detail/master-of-information-systems-management-data-analysis-2021-302

Administrative Academic Experience

No	Period	Position	University	Work Description
1	Sept. 2012 To Sept. 2014	Head of Computer Information Systems (CIS) Department	Al-Quds Open University Palestine Faculty of Technology & Applied Sciences	- Developing the study plan for a bachelor's degree in computer information systems. - Preparing several outlines for several courses in computer and information technology.
2	Sept. 2016 To Sept. 2019			

Professional Experience

Member of the Accreditation Technical Board for Non-Palestinian Certificates, Ministry of Higher Education & Scientific Research – Palestine.

* *Assigned by the Palestinian Minister of Higher Education.*

* **Period:** Years 2020 to 2022.

Supervising / Reviewing / Examining Postgraduate Theses

Task	Reviewer of a PhD Thesis in Information Technology	
Student Name	Abeer Azem Qashou	
Thesis Title	Data Security Risks of Implementing Mobile Cloud Computing in Higher Education Institutions	
University	University Kebangsaan Malaysia (UKM)	
Country	Malaysia	
Year	2023	
Task	Examiner of a PhD Thesis in Artificial Intelligence (AI)	
Student Name	Charles Saroufim	
Thesis Title	Using AI in Education Awareness	
University	Accord University	
Country	Mogadishu -Somalia	
Year	2023	
Task	Supervisor of Master's Thesis in Business Intelligence & Data Analytics	
Student Name	Hala Ismail	
Thesis Title	From Data to Decisions: The Role of Analytics and Visualization on Decision-Making: A Case Study of Microsoft Power BI In Palestinian Telecommunication Company – JAWWAL	
University	An- Najah National University, Nablus, Palestine	
Country	Palestine	
Year	2026	
Task	Supervisor of Master's Thesis in Business Intelligence & Data Analytics	
Student Name	Warda Abdulhameed Shawabkeh	
Thesis Title	A Business Intelligence–Driven Framework for Analyzing Online Consumer Behavior: A Simulation-Based Application in the Palestinian Market Context	
University	An- Najah National University, Nablus, Palestine	
Country	Palestine	
Year	2026	
Task	Examiner of MSc Thesis in both Programs: (Computer Science) and (Cybercrimes & Digital Evidence Analysis)	
University	Palestine Technical University - Kadoorie	
Country	Palestine	
	(1)	Year
Thesis Title	Vote Chain: A Secure Blockchain-based E-Voting System to Prevent Voter Fraud	Jan, 2023
Student Name	Ahmed Hammoudi	

(2)		
Thesis Title	A Machine Learning Framework & Development for Insider Cybercrime Threats Detection	June, 2023
Student Name	Rashid Fathi Rashid Yousef	
(3)		
Thesis Title	Developing an Agricultural Value Chain Traceability System Using Blockchain.	Aug, 2023
Student Name	Shadia Jayousi	
(4)		
Thesis Title	An Enhanced Criminal Behavior Detection Framework for Social Media Forensics	Oct, 2023
Student Name	Noura Jamal Rida Hamd	
(5)		
Thesis Title	Digital Forensic Tool Supported by Machine Learning for Arabic Cyber-Bullying Detection on Facebook	Dec, 2023
Student Name	Sajida Qedan	
(6)		
Thesis Title	Developing a Digital Forensic System for Evidence Management and Chain of Custody Maintenance Using Blockchain	March, 2024
Student Name	Rozan Khader	
(7)		
Thesis Title	A Deep Learning-Based System for Indoor Object Detection and Tracking	Dec,2024
Student Name	Suad Samara	
(8)		
Thesis Title	A Deep Learning-Based System for Indoor Object Detection and Tracking	Dec,2024
Student Name	Suad Samara	
(9)		
Thesis Title	English to Arabic Machine Translation by Seq2Seq Model	Oct,2024
Student Name	Taher Qabaha	
(10)		
Thesis Title	Ransomware Responding and Recovery Using Memory Forensics Techniques	Nov,2024
Student Name	Bushra Ayyash	
(11)		
Thesis Title	A Deep Learning-Based System for Indoor Object Detection and Tracking	Dec,2024
Student Name	Suad Samara	

(12)		
Thesis Title	Enhancing Skin Cancer Detection with AI: An Integrated Model Combining Image Processing and Metadata	Dec,2025
Student Name	Aseel Qarariah	
(13)		
Thesis Title	Digital Forensics for Mobile Devices: Extracting and Analyzing Modified and Deleted WhatsApp Messages	Jan,2026
Student Name	Ali Abu Baker	

*** Supervised more than 15 Master's theses in the field of:**

- Information Systems Management & Data Analysis
- Artificial Intelligence.
- Business Intelligence.

University: **Accord University / Mogadishu – Somalia (From 2021 – 2024)**

The Authored / Published Books

I authored two reviewed scientific and academic books in the field of Management Information Systems (MIS), as follows:

The First Published Book					
Author Name	Book Title	Publishing House	ISBN	Country	Date
Mohammad Abu Omar	An Effective Model to Design Management Information Systems (MIS)	Scholar's Press & ACM Digital Database	978-3-659-84065-4	Germany	July, 2016
The Link to the book at Amazon					
https://www.amazon.com/Effective-Design-Management-Information-Systems/dp/3659840653					
The Second Published Book					
Author Name	Book Title	Publishing House	Course Number	Country	Date
Mohammad Abu Omar	Management Information Systems	Al-Quds Open University	1481	Palestine	Sept, 2023

The Publications

1.	Omar, M.M.A. A theoretical model for balancing population density and urban green spaces in smart cities to combat air pollution and enhance sustainable development. <i>Discov Sustain</i> (2026). https://doi.org/10.1007/s43621-026-03349-9 Springer Nature – Scopus - Q1- IF = 3
2.	Mohammad Abu Omar, Rani Shhwan “ <i>A Novel Approach for the Comprehensive Evaluation of Management Information Systems Performance: A Theoretical Framework</i> “. The 6th Joint Scientific Conference of the Faculty of Business and Communication - An-Najah National University and the School of Business - The University of Jordan, Amman, Jordan, April.2024 .
3.	Dr. Mohammad Mahmoud Abu Omar, Mohammad Awawdeh, Ramize Sane “ <i>A Machine Learning-Based Model for Implementing the Cybersecurity for Organizations 'Assets</i> ”. <i>Global Journal of Computer Science and Technology, GJCST, USA, ISSN 0975-4350, Volume 22, Issue 2, Version 1, 2022</i> .
4.	D. M. Abu Omar, “ <i>Palestine Radar Model (PRM) for Predicting the Number of Infected Cases of COVID-19 Virus in Palestine</i> ”, <i>Technium, Romania, ISSN: 2668-778X, vol. 2, no. 2, pp. 61-71, Apr. 2020</i> .
5.	Mohammad Abu Omar, “ <i>Artificial Intelligence Applications in Law Technology</i> “. The 13th ICT Day of Law Technology Proceedings, Al-Quds Open University, Ramallah, Palestine, November.2019 .
6.	Mohammad Abu Omar, “ <i>Technology Behinds Cryptocurrencies</i> “. The 12th ICT Day of Financial Technology Proceedings, Al-Quds Open University, Ramallah, Palestine, November.2018 .
7.	Mohammad M M Abu Omar, Khairul Anuar Abdullah “ <i>Using of Net Present Value (NPV) to Test the Integrate Model in Building Management Information Systems</i> ”. <i>Journal of Economics, Finance, and Accounting, JEFA, Turkey, ISSN 2148-6697, Volume 3 – Issue 1, March 2016</i> .
8.	Mohammad M M Abu Omar, Khairul Anuar Abdullah “ <i>The Use of the Probability Tree Diagram to Test the Integrated Model in Building the Management Information Systems</i> ”. <i>Global Journal of Management and Business Research, GJMBR, USA, ISSN 0975-5834, Volume16, 2016</i> .
9.	Mohammad M M Abu Omar, Khairul Anuar Abdullah “ <i>Testing the Use of the Integrated Model in Designing the Management Information Systems by Using the Mathematical Probability Theories</i> ”. <i>Published Paper in the International Journal of Advanced Computer Science and Applications, IJACSA, USA, ISSN 2156-5570, Volume 6 – Issue 11, November 2015</i> .
10.	Mohammad M M Abu Omar, Khairul Anuar Abdullah “ <i>Developing a New Integrated Model to Improve the Using of Classical Approach in Designing Management Information Systems</i> ”. <i>Published Paper in the International Journal of Advanced Computer Science and Applications, IJACSA, USA, ISSN 2156-5570, Volume 6 – Issue 9, September 2015</i> .
11.	Mohammad M M Abu Omar, “ <i>A New Approach to Increase the Efficiency of Classical Approach in Designing Management Information Systems (MIS's)</i> ”. <i>Published Paper in the International Journal of Research in Computer and Communication Technology, IJRCCT, India, ISSN 2320- 5156, Volume 3– Issue.11, November 2014</i> .

12.	Mohammed M M Abu Omar, “ <i>Developing New Methods in Designing Management Information Systems to Solve Management Problems by Using Classical Approach</i> ”. Published Paper in International Journal of Computer Applications, IJCA, USA, ISSN 0975-8887, Volume 101– No.16, September 2014.
12.	Mohammad M Abu Omar, “ <i>Developing New Methods to Find the Number of RAM Chips In The Memory Decoding To Construct The Required Memory Size</i> ”. Published Paper in the ICICT 2012 International Conference Proceedings, Al-Quds Open University, June 2012. Ramallah -Palestine.
13.	Mohammad M Abu Omar, " <i>C for Scientific Applications</i> ". Accepted Paper for Publication in the 4th Malaysian Software Engineering Conference (MySEC08), University Malaysia Terengganu, 16-17 December 2008.Malaysia.
14.	Mohammad M Abu Omar, Samir A Matar," <i>Using C in Designing a Parallel Interface System for Multiple Scientific Applications</i> " Accepted Paper for Publication in the 4 th International Conference in Electrical Systems Engineering in Singapore, ISSN: 1307-6884, August 30-31, September 1, 2008, Singapore.
15.	محمد محمود أبو عمر، "كيف يمكن أن يحقق التعليم المهني والتقني في فلسطين لأهدافه". المؤتمر الاول للتعليم المهني والتقني في فلسطين، جامعة النجاح الوطنية، نابلس، 21-ابريل، 2008.

International Scientific Participation

A- Member of Editorial Boards & Technical Committees of International Peer-Reviewed Journals		
1	Position:	Editorial Board Member
	Journal	International Journal of Computer Networks (IJCN).
	ISSN:	1985-4129
	Country:	Malaysia

B- Keynote Speaker and Moderator at Conferences, Workshops &TV Interview	
Position	Keynote Speaker
Event	TV Interview Titled: 5G Technology Effects on Earth & Space.
Organizer	Al-Jazeera Satellite TV, Qatar
Date	Jan 18, 2022
Link	https://www.facebook.com/AJA.Sabah/videos/3039222689740411/
Position	Keynote Speaker
Event	TV Interview Titled: The Most Dangerous Cybersecurity Attacks Worldwide in 2021.
Organizer	Al-Arabia Satellite TV, UAE
Country and Date	Jan 3, 2022
Link	https://youtu.be/zYx-N1hQfFY
Position	Keynote Speaker
Event	TV Interview Titled: Smart Applications to Measure the Air Pollution and Quality Around Us.
Organizer	Al-Arabia Satellite TV, UAE
Country and Date	Nov 22, 2020
Link	https://www.youtube.com/watch?v=A4TnT_yo1ZY&t=311s
Position	Moderator & Rapporteur of the First Scientific Session
Event	The 13 th ICT Day (Technology & Law)
Organizer	Al-Quds Open University, ICTC Center
Country and Date	Palestine – Ramallah – Grand Park Hotel -November 27, 2019
Link	https://www.youtube.com/watch?v=RAyeAEBmd-8
Position	Rapporteur of the Second Scientific Session
Event	The 12 th ICT Day (Financial Technology – FinTech)
Organizer	Al-Quds Open University, ICTC Center
Country and Date	Palestine – Ramallah – Grand Park Hotel -November 27, 2018
Position	Keynote Speaker
Event	TV Program Titled: The Safe Use of Smart Technology
Organizer	Palestine Satellite TV
Country and Date	Palestine – Ramallah, October 20, 2018
Position	Keynote Speaker
Event	Sixth Palestinian Conference on Modern Trends in Mathematics and Physics (PCMTMP-VI)
Organizer	Palestine Technical University – Kadoorie (PTUK)
Country and Date	Palestine – Tulkarm, August 5, 2018

Position	Moderator of Session
Event	Third Research & Innovation Conference in Engineering
Organizer	Palestine Technical University – Kadoorie (PTUK)
Country and Date	Palestine – Tulkarm, April 2, 2018

Honors & Awards

Honor / Award	Organization	Country	Date/Year
Special Global Certificate for Teaching UN Sustainable Development Goals (SDGs)	International Council for Small Business with Cooperation of United Nations (UN) & International Labor Organization (ILO).	USA	May 9, 2020
Gold Medal of Excellence	The Arab Organization for Social Responsibility	DUBAI	May 28, 2018

The End