

## 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

**Address:** Palestine, West Bank - Tulkarm City, Nablus Street.

**Mobile & WhatsApp:** +972599878068

**House Phone:** +972 9-2692760

**E-mail:** [mohammad.abuomar@najah.edu](mailto:mohammad.abuomar@najah.edu)



### Education

| <b>Doctor of Philosophy (Ph.D.)</b>     |  |
|---|--|
| Major                                   | <b>Information Systems / [With Distinction]</b>  |
| 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   |
| <b>Master of Science (MSc)</b>          |  |
| Major                                   | <b>Scientific Computing</b>  |
| Thesis                                  | Using C Language on Scientific Computing Applications  |
| University                              | Birzeit University, Palestine  |
| Year                                    | 2007   |
| <b>Bachelor's Degree in Engineering</b> |  |
| Major                                   | <b>Electronics &amp; Computer Engineering</b>  |
| University                              | Al-Quds University, Jerusalem, Abu Dees, Palestine   |
| Year                                    | 2004   |

## Academic Experience

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

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

### Remotely Academic Experience

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

### Administrative Academic Experience

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

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

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

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

| <b>The First Published Book</b>   |   |  |                      |                |             |
|---|---|--|----------------------|----------------|-------------|
| <b>Author Name</b>  | <b>Book Title</b>   | <b>Publishing House</b>                | <b>ISBN</b>          | <b>Country</b> | <b>Date</b> |
| 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  |
| <b>The Link to the book at Amazon</b>   |   |  |                      |                |             |
| <a href="https://www.amazon.com/Effective-Design-Management-Information-Systems/dp/3659840653">https://www.amazon.com/Effective-Design-Management-Information-Systems/dp/3659840653</a> |   |  |                      |                |             |
| <b>The Second Published Book</b>  |   |  |                      |                |             |
| <b>Author Name</b>  | <b>Book Title</b>   | <b>Publishing House</b>                | <b>Course Number</b> | <b>Country</b> | <b>Date</b> |
| Mohammad Abu Omar   | Management Information Systems                                    | Al-Quds Open University                | 1481                 | Palestine      | Sept, 2023  |

## The Publications

|    |   |
|----|---|
| 1. | M. M. Abu Omar, " <i>A theoretical model for balancing population density and urban green spaces in smart cities to combat air pollution and enhance sustainable development</i> ", Discover Sustainability, Springer Nature, 2026.<br><br>Scopus- Q1- IF =3<br><i>Accepted</i>   |
| 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, <b>April.2024</b> .   |
| 3. | Dr. Mohammad Mahmoud Abu Omar, Mohammad Awawdeh, Ramize Sane " <i>A Machine Learning-Based Model for Implementing the Cybersecurity for Organizations 'Assets</i> ". Global Journal of Computer Science and Technology, GJCST, USA, ISSN 0975-4350, Volume 22, Issue 2, Version 1, <b>2022</b> .  |
| 4. | D. M. Abu Omar, " <i>Palestine Radar Model (PRM) for Predicting the Number of Infected Cases of COVID-19 Virus in Palestine</i> ", Technium, Romania, ISSN: 2668-778X, vol. 2, no. 2, pp. 61-71, Apr. <b>2020</b> .   |
| 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. <b>2019</b> .   |
| 6. | Mohammad Abu Omar, " <i>Technology Behinds Cryptocurrencies</i> ". The 12th ICT Day of Financial Technology Proceedings, Al-Quds Open University, Ramallah, Palestine, November. <b>2018</b> .  |
| 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> ". Journal of Economics, Finance, and Accounting, JEFA, Turkey, ISSN 2148-6697, Volume 3 – Issue 1, March <b>2016</b> .  |
| 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> ". Global Journal of Management and Business Research, GJMBR, USA, ISSN 0975-5834, Volume16, <b>2016</b> .   |
| 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> ". Published Paper in the International Journal of Advanced Computer Science and Applications, IJACSA, USA, ISSN 2156-5570, Volume 6 – Issue 11, November <b>2015</b> .<br><br>(The Journal is Indexed in Thomson Reuters (ISI) Database) |

|     |   |
|-----|---|
| 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> ”. Published Paper in the International Journal of Advanced Computer Science and Applications, IJACSA, USA, ISSN 2156-5570, Volume 6 – Issue 9, September 2015.<br>(The Journal is Indexed in Thomson Reuters (ISI) Database) |
| 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> ”. Published Paper in the International Journal of Research in Computer and Communication Technology, IJRCCT, India, ISSN 2320- 5156, Volume 3– Issue.11, November 2014.  |
| 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 <sup>th</sup> 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 الأول 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  | <b>Position:</b> | Editorial Board Member  |
|  | <b>Journal</b>   | International Journal of Computer Networks (IJCN).                          |
|  | <b>ISSN:</b>     | 1985-4129   |
|  | <b>Country:</b>  | Malaysia  |
| 2  | <b>Position:</b> | Technical Committee Member – Reviewer                                       |
|  | <b>Journal</b>   | International Journal of Computer Science and Information Security (IJCSIS) |
|  | <b>ISSN:</b>     | 1947-5500   |
|  | <b>Country:</b>  | USA   |



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

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

## Honors & Awards

| <b>Honor / Award</b>  | <b>Organization</b>  | <b>Country</b> | <b>Date/Year</b> |
|---|--|----------------|------------------|
| 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). | <b>USA</b>     | May 9, 2020      |
| Gold Medal of Excellence  | The Arab Organization for Social Responsibility  | <b>DUBAI</b>   | May 28, 2018     |

*The End*