

Abeer Dirar Malkawi

Irbid – Jordan

00962-790296890

E-mail: abrmalkawi@gmail.com



EDUCATION

- **PhD. in Computer Science/Artificial Intelligence (Human-Computer Interaction Using Deep Learning)**
University Putra Malaysia, Malaysia, 2024
- **M.S. in Computer Science**
The University of Jordan, Jordan, 2000.
- **Diploma in Education (Methods of Teaching)**
Yarmouk University, Jordan, 1997.
- **B.S. in Computer Science**
Yarmouk University, Jordan, 1992.

ACADEMIC EXPERIENCE

October 2024 – Now

Assistant Professor

Computer Science Department – Information Technology Faculty
Jadara University
Irbid – Jordan

Courses Taught in Jadara

1. Algorithm Design and Analysis
2. Data Structures
3. Object-Oriented Programming

February 2024 – September 2024

Assistant Professor

Data Science and Artificial Intelligence Department.
Irbid National University
Irbid – Jordan.

Courses Taught in INU

1. AI Algorithms
2. Programming in C#
3. C++ Programming Language
4. Principles of Cybersecurity
5. Introduction to IT
6. Digital Culture

November 2023 – June 2024

Assistant Professor

School of Computing and Informatics (Part Time).
AlHussein Technical University
Amman, Jordan.

Courses Taught in HTU

7. Application Development
8. Fundamental of Computing
9. Java Programming Language

August 2008 – Dec 2017

Senior Lecturer

Khalifa University
Abu Dhabi, UAE.

Courses Developed and Taught in Khalifa University

1. Introduction to Programming Languages in C++.
2. Introduction to Programming in MatLab
3. Introduction to Computer Technology
4. Problems Solving in Computing
5. Computer Skills

Sep. 2001 – Sep. 2008

Lecturer

Computer Science Department
Jordan University of Science and Technology, Jordan.

Courses Taught in JUST

1. Java Programming Language
2. Algorithms
3. Data Structures
4. Advanced Data Structures
5. C++ Programming Language
6. Visual Basic Programming Language
7. Computer Skills

Participated in developing the curriculums of

- C++ Programming course
- Data Structures
- Advanced Data Structures

Sep. 2000 – Sep. 2001

Teaching Assistant

Computer Science Department
Yarmouk University, Jordan.

Courses Taught in YU

1. Computer Skills.
2. C++ Programming Language
3. Prolog Programming Language

SERVICES:

- | | |
|-------------------------|---|
| 2011 – 2016 | 1. Coached teams of Khalifa University students – Abu Dhabi campus, for Gulf Programming Contest (GPC). |
| Oct 2013 | 2. Coached a team of Khalifa University students – Abu Dhabi campus for the IEEEExtreme 7.0 programming contest. |
| Dec 2012 | 3. Coached a team of Khalifa University students – Abu Dhabi for the Fifteenth ACM Arab Collegiate Programming Contest .Held in Princess Sumaya University for Technology – Amman – Jordan. |
| 2008, 2009 & 2010 | 4. Couched teams of Khalifa University students – Abu Dhabi campus, for National Programming Contest. |
| 2010, 2011 and 2015 | 5. Coached teams of Khalifa University students – Abu Dhabi campus, for Khalifa University Programming Contest (KPC). |
| 2010, 2011, 2015 – 2017 | 6. Member of the Judges committee, the organization committee and the technical committee in the KPC. |
| 2012 – 2017 | 7. Co-supervise the preparatory students in Abu Dhabi Science Festival. |
| 2010 | 8. Prepared the Computer Entrance Exam. |

MEMBERSHIP

- | | |
|----------------|-------------------------|
| 2010 – present | • IEEE Computer Society |
|----------------|-------------------------|

HONORS

- 2009 – 2017 • Award for coordinating and judging committee member of KPC (Khalifa university programming contest)
- Mar 2014 • Supervisor for the 3rd Place winner in the fifth GPC (Gulf Programming contest)
- Supervisor for the 2nd Place winner in the fourth GPC.
- Mar 2013 • First Excellence Award for Outstanding Teaching offered by Jordan University of Science and Technology.
- Sep 2004

PUBLICATIONS

- Abeer Malkawi, Azrina Kamaruddin, (2025), Toward Enhancing Outdoor Mobility Assistive Technologies for People with Vision Impairment: Experts' Perspective, *12th International Conference on Information Technology (ICIT 2025)*, 27th-30th May 2025 in Amman, Jordan. Al-Zaytoonah University of Jordan.
<https://ieeexplore.ieee.org/xpl/conhome/11049084/proceeding?sortType=vol-only-seq&isnumber=11049088&searchWithin=Abeer%20Malkawi>
- Abeer Malkawi, Azrina Kamaruddin, Alfian Abdul Halin, Novia Admodisastro, 2023, Listening to the Voice of People with Vision Impairment Revealing Outdoor Mobility Traits for Improved Assistive Technologies, *International Journal of Advanced Computer Science and Applications (IJACSA)* - Volume 14, No 4, pp 414-423, Retrieved from <https://thesai.org/Publications/ViewPaper?Volume=14&Issue=4&Code=IJACSA&SerialNo=46>
- Malkawi A., Kamaruddin A., Admodisastro N, Perumal P., (2019), Outdoor Mobility Assistive Technologies for People with Vision Impairment or Blindness – A State of the Art, *International Journal of Advanced Science and Technology*, 28 (2), Retrieved from <http://sersc.org/journals/index.php/IJAST/article/view/485>
- Abeer Malkawi, Azrina Kamaruddin, (2025), Improving Cognitive Map Formation for People with Vision Impairment: Integrated Spatial Learning Strategies through YOLO-v4 Detection App, *IEEE Transactions on Human-Machine Systems*, Submitted and under review.

CONFERENCES

- 12th International Conference on Information Technology (ICIT 2025), 27th-30th May 2025 in Amman, Jordan. Al-Zaytoonah University of Jordan
- Applied Informatics International Conference 2019 (AiIC2019), 2 – 4 July 2019, Penang – Malaysia

RESEARCH INTERESTS

- Deep Learning
- Image Processing
- Human-Computer Interactions.

**SELECTED
ATTENDED
WORKSHOPS**

- Lecture Publication in High Impact Journal, 8-Nov-18, UPM, Malaysia
- Lecture Childlike Computing: UX and Usability, 11-Jan-19, University of Malaya
- IEEE Authorship Workshop, 15-Jan-19, UPM-Malaysia
- IoT workshop, 17 - 18 Jan 2019, UPM-Malaysia
- National Symposium Human Computer Interaction - Fusion 2019, 15-Feb-19, UTeM- Malaka- Malaysia
- ISI Publication – 20 July-20, USM - Penang - Malaysia
- HCI Research Methods On Data Acquisition For Society 5.0 Research, 26-Sep-19, Kulliyah ICT, IIUM, Malaysia
- Presentation Skills, 20-Dec-19, UPM, Malaysia
- Video Transcription, 6-Feb-20, UPM, Malaysia
- Qualitative Research, 13-Feb-20, Univ. of Malaya
- Systematic Literature Review (part 1), 16-Apr-20, Webinar,
- How to Write a Good Research Proposal, 29-Apr-20, Webinar - UPM
- Systematic Literature Review (part 2), 2-May-20, Webinar
- Road2CHI Writing, 4-Jun-20, Webinar - MyHCI-UX
- Bytecare UPM: Artificial Neural Network Using Scilab, 4-Jun-20- Webinar, UPM
- Deep Learning Workflows in MATLAB, 5-Jun-20, Webinar
- Academic Writing, 8-Jun-20, Webinar, UTeM
- Improving Academic Writing Skills in Publishing High Impact Journals- 11-Jun-20- Webinar, UPM
- LaTeX Program, 14 - 15 June 20, Webinar
- Bibliometric analysis, 20-Jun-20- Webinar -

REFERENCES

- Dr. Arwa Thebyan
Associated Professor at Computer Science Department -
Jadara University.
arwa@jadara.edu.jo
- Prof. Suleiman Bani Bakr
Computer Science Department - Jadara University.
s.banibakr@jadara.edu.jo
- Dr. Azrina Binti Kamaruddin – University Putra Malaysia
azrina@upm.edu.my
- Dr. Alfian Abdul Halin – University Putra Malaysia
alfian@upm.edu.my, alfian@ieee.org
- Dr. Faleh Al Tal – Yarmouk University – Jordan
faleh.altal@yu.edu.jo