CURRICULUM VITAE

ABDALLAH TRAD
ASSOCIATE PROFESSOR (INFORMATION TECHNOLOGY)
AWS CERTIFIED, AWS & CISCO INSTRUCTOR
Jerash University – Jordan

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Career Objective

Eager to leverage my innovative teaching methods and technological expertise to inspire students and contribute to scientific research. Committed to advancing classrooms through interactive and problem-solving while driving impactful research in Networking, cybersecurity, and AI to address real-world challenges.

Research Interest

Networking, Cybersecurity, Cloud Computing, Machine Learning, and Artificial Intelligence.

Academic Accomplishment

2012 - 2017   **Doctor of Philosophy of Information Technology**
University Utara Malaysia (UUM)

Thesis Title: Resource Allocation Technique for Powerline Communication Network Using a Modified Shuffled Frog Leaping Algorithm – published on: CORE – open access research paper/core.ac.uk

Specific Specialization: Computer Sciences / Networking

2010 - 2011   **Master of Science in Information Technology**
University Utara Malaysia

Dissertation Title: Post Flood Disaster Missing People Tracking Model

2005 - 2009   **Bachelor's in Computer Information Systems**
Mutah University – Jordan
Project Title: Effective Wireless Networking System Design for University Campus: Simulation for Mutah University.

Research and Publication

Journal:

1. *Efficient MRI Segmentation of Spine Hemangiomas: A Novel Modified U-Net Approach to Enhance Tumor Boundary Detection*. 2025, Abujalambo, Nor Azlinah, Jawarneh Malik Mustafa Mohammad, Hilles Shadi, Altrad Abdallah. Journal of Theoretical and Applied Information Technology.

2. *Automated Arabic Essay Scoring Based on Hybrid Stemming with WordNet*, Malaysian Journal of Computer Science, 2021, Alobed, Mohammad; Altrad Abdallah MM; Bakar, Zainab Binti Abu; Zamin, Norshuhani.

3. *Traffic Engineering in the Voice Telephone Network: Review Paper,* Arrasikhun International Journal, Data Science and Networking, 2019, Abdelwahab, Mohamed Yassin; Hilles, Shadi MS; Altrad Abdallah.

4. *Determine Factors Influencing Mobile Learning Acceptance in Higher Education Institution of Malaysia: Online based learning*, International Journal of Contemporary Computer Research, 2017, Abdallah Altrad; Ebiary, Yousef; Najeeb, Al-Sammarraie.

5. *A Review: Understanding of Broadband Over-power Line Communication*, Journal of Internet Services and Applications (Springer Journal), 2015, Altrad, Abdallah.

6. *Modelling of Remote Area Broadband Technology Over Low Voltage Power Line Channel*, International Journal of Computer Networks & Communications, 2012, Altrad Abdallah Mahmoud Mousa; Osman, Wan Rozaini Sheik; Nisar, Kashif.

Conference:

1. IoT Medical Network Security System Based Explainable AI Model, 2025 12th International Conference on Information Technology (ICIT 2025) 27th-30th May, Zaytoonah University, Amman, Jordan.

2. Enhancing Cybersecurity with Large Language Models (LLMs): A Powered Web Application for Suspicious Detection, IBTSS 2024 International Conference: Integration of Business, Digital Technologies, and Social Sciences for a Sustainable ASEAN and Beyond, 2024, Abdallah, Altrad.

3. Enhancing Cybersecurity: Innovative Packet Sniffer & AI-driven Network Intrusion Detection Web Application, IBTSS 2024 International Conference: Integration of Business, Digital Technologies, and Social Sciences for a Sustainable ASEAN and Beyond, 2024, Abdallah, Altrad; Chanveasna, Eng.

4. Classifying Cambodia's Historical Sculpture using Deep Convolutional Neural Network Algorithm for AI application, IBTSS 2024 International Conference: Integration of Business, Digital Technologies, and Social Sciences for a Sustainable ASEAN and Beyond, 2024, Abdallah, Altrad; SethiSak, San.

5. IOTs Traffics Detection and Analysis Using Machine Learning for Cybersecurity Application, IEEE 5th Eurasia Conference on IOT, Communication and Engineering (ECICE), 2023, Altrad, Abdallah.

6. A Comparative Analysis of Euclidean, Jaccard and Cosine similarity measure and Arabic Wordnet for Automated Arabic essay scoring, Fifth International Conference on Information Retrieval and Knowledge Management (CAMP), 2021, Alobed, Mohammad; Altrad, Abdallah MM; Bakar, Zainab Binti Abu.

7. Blockchain as Decentralized Communication Tool for Sustainable Development, 2nd International Conference on Smart Computing and Electronic Enterprise (ICSCEE), 2021, El-Ebiary, Yousef A Baker; Hatamleh, Amer; Aseh, Khairi; Altrad, Abdullah; Amayreh, Khalid Thaher; Hilles, Shadi; Mohamed, Rajina R; Pathmanathan, P Ravindran; Aledinat, Lowai Saleh.

8. Adaptive Latent Fingerprint Image Segmentation and Matching using Chan-Vese Technique Based on EDTV Model, 2nd International Conference on Smart Computing and Electronic Enterprise (ICSCEE), 2021, Hilles, Shadi MS; Liban, Abdilahi; Altrad, Abdullah Mahmoud; Miaikil, Othman AM; El-Ebiary, Yousef A Baker; Contreras, Jennifer; Hilles, Mohanad M.

9. Amazon in Business to Customers and Overcoming Obstacles, 2nd International Conference on Smart Computing and Electronic Enterprise (ICSCEE), 2021, Altrad, Abdullah; Pathmanathan, P Ravindran;

Al Moaiad, Yazeed; Endara, Yousef Mohamed; Aseh, Khairi; El-Ebiary, Yousef A Baker; Farea, Mazen Mohammed; Latiff, Nurul Adilah Abdul; Saany, Syarilla Iryani Ahmad.

10. An Adaptive Automated Arabic Essay Scoring Model Using the Semantic of Arabic WordNet, 2nd International Conference on Smart Computing and Electronic Enterprise (ICSCEE), 2021, Alobed, Mohammad; Altrad, Abdallah MM; Bakar, Zainab Binti Abu.

11. Latent Fingerprint Enhancement and Segmentation Technique Based on Hybrid Edge Adaptive DTV Model, 2nd International Conference on Smart Computing and Electronic Enterprise (ICSCEE), 2021, Hilles, Shadi MS; Liban, Abdilahi; Miaikil, Othman AM; Altrad, Abdullah Mahmoud; El-Ebiary, Yousef A Baker; Hilles, Mohanad M; Contreras, Jennifer.

12. Blockchain as a Decentralized Communication Tool for Sustainable Development, IEEE - 2nd International Conference on Smart Computing and Electronic Enterprise (ICSCEE), 2021, YA, Baker El-Ebiary; Hatamleh, A; Aseh, K; Altrad, Abdallah; Amayreh, KT; Hilles, S; Mohamed, RR; Aledinat, LS.

13. Track Student Attendance at a Time of the COVID-19 Pandemic Using Location-Finding Technology, 2nd International Conference on Smart Computing and Electronic Enterprise (ICSCEE), 2021, Jusoh, Julaily Aida; Rose, Ahmad Nazari Mohd; Aledinat, Lowai Saleh; Altrad, Abdullah; Saany, Syarilla Iryani Ahmad; Aseh, Khairi; Mohamed, Rajina R; Pathmanathan, P Ravindran; El-Ebiary, Yousef A Baker.

14. Adaptive Shuffled Frog Leaping Algorithm for Optimal Power Rate Allocation: Powerline, International Conference on Smart Computing and Electronic Enterprise (ICSCEE), 2018, Altrad, Abdullah MM; Amphwan, Angela; Hilles, Shadi MS.

15. A Testbed: Evaluation of HomePlug AV Broadband Power Line Communication Adapter over Indoor Electricity Grid, the 4th International Conference on Internet Applications, Protocols and Services (NETAPPS2015), 2015, Altrad, Abdullah; Sajat, Mohd Samsu; Amphawan, Angela; Wan Rozaini.

16. Modeling of Broadband Over I-door Power Line Network in Malaysia, Recent Advances in Information and Communication Technology: Proceedings of the 10th International Conference on Computing and Information Technology (IC2IT2014), Published in Springer: Part of the Book series: Advances in Intelligent Systems and Computing ((AISC, volume 265)), 2014, Nisar, Kashif; Osman, Wan Rozaini Sheik; Altrad, Abdallah MM.

17. Demonstrate Broadband Over Powerline Network in Malaysia, IEEE International Conference on Consumer Electronics-China, 2014, Osman, Wan Rozaini Sheik; Nisar, Kashif; Altrad, Abdallah MM.

18. Evaluation of Broadband PLC Technology over Malaysia's Indoor Power Line Network, 2nd international conference on electronic design (ICED), 2014, Wan R S; N, Kashif, Abdullah, M M Altrad.

19. Characterizing Broadband over Low Voltage Power Line Network in Malaysia, Rural ICT Development (RICTD) International Conference, 2013, Altrad, Abdallah.

20. Initial Model-based Malaysia Regulations Broadband Technology over Powerline Networks, Advances in Intelligent Systems and Computing Conference, 2012, Sheik Osman, Wan Rozaini; Nizar, Kashif; Altrad, Abdallah, Mahmoud, Mousa.

21. ICT Rural Area Model for Broadband Technology over Power lines Network, 3rd International Conference on Network Application Protocols and Services (NetApps), 2012, Altrad, Abdallah.

Theses & Book Chapter:

1. Latent Fingerprint Enhancement Based on EDTV Model, IGI Global Research Books, Chapter Book, Handbook of Research on Applied Data Science and Artificial Intelligence in Business and Industry, 2021, Hilles, Shadi MS; Liban, Abdilahi Deria; Altrad, Abdullah, M.M; El-Ebiary, Yousef A B; Hilles, M.

2. Resource Allocation Technique for Powerline Network Using a Modified Shuffled Frog-Leaping Algorithm, PhD Thesis-University Utara Malaysia Library Database System, 2018, Abdallah M.M Altrad.

3. Web Based Post Flood Disaster Missing People Tracking Information System Master Thesis published under University Utara Malaysia Library Database System, 2011, Abdallah Altrad.

Ongoing Research:
1. Custom Light Large Language Models for Detecting Malicious Network Traffic: A Novel Approach to Packet-Level Threat Identification in Healthcare IoT Devices.

International Research Fund

Project Title	:	Viability of Broadband Access over Residential Power Line Communication Network
Sponsored by	:	International Telecommunication Union (ITU) Asia Pacific Centre of Excellence for Rural ICT Development University Utara Malaysia (UUM)
Grant Amount	:	RM10,000

Teaching Experience

Associate Professor Faculty of Computer Science & Info. Technology Jerash University Jordan (Jan 2025 – To Date) **Associate Professor** School of Digital Technologies The American University of Phnom Penh (AUPP) (Aug 2020 – Jan 1st, 2025) **Assistant Professor** Faculty of Computer & Info. Tech. Al Madinah International University Malaysia (MEDIU)-Malaysia (Feb 2016 – Aug 2020)	• Amazon AWS Instructor: Data Center Technician, Engineering Operation Technician, Machine Learning, Cloud Developing, Cloud Operations. • CISCO Instructor: Networking Essentials • Prepare and deliver regular classes for undergraduate & postgraduate students. • Conduct tutorial sessions, seminars, short courses, and laboratory classes. • Prepare and make student assignments, essays, exams. • Conduct research in his field of interest, and supervising Master & PhD students. • Participated in curriculum revision and academic program planning & development for gaining Malaysia Qualification Accreditation (MQA) of programs. • Assist in the preparation of course's files, syllabus, guidelines and forms of the faculty. • Supervise Master & PhD Students. • Supervise internship students (Industrial Training).
Head of Department (10 Oct 2018 – 31 Dec 2019) (MEDIU)	Department of Computer Sciences & Networking, Faculty of Computer & Information Technology – Al Madinah International University – Malaysia.
Acting Dean (Aug - Sept 2018) (MEDIU)	Faculty of Computer & Info Tech – Al Madinah International University – Malaysia.

Faculty Experience (MEDIU)	• Development of Academic Programs. • Curriculum Development: Developing and Managing Academic Programs. • Assist on preparation of the current and new academic programs for Malaysia Qualification Accreditation (MQA) documentation. • Assist in the preparation of courses' files, syllabus, procedures, guidelines and forms for the Academic Affairs Division and reports as required which include the program status. • Course Coordinators, Program Coordinator, Internal Vetter for Final Exams, Final Year Project Coordinator & Evaluator.
Coordinator of Computer Networks Lab (MEDIU)	Lab hands-on training for design, troubleshooting, modeling, evaluation of computer networks, and real testbed networking environment.
University Experience (MEDIU)	Member of Accreditation of Prior Experiential Learning.

Professional Certification & Workshop

i. **Amazon Web Services (AWS) Cloud Practitioner**
ii. **Nvidia: Digital Fingerprinting with Morpheus**
    a. Skills: Perform Digital Fingerprinting with the NVIDIA Morpheus AI Cybersecurity Platform for Cybersecurity & Fraud Detection AI Application
iii. **Nvidia: Building AI-Based Cybersecurity Pipelines (On-going)**
    a. Skills: Apply NVIDIA Morpheus framework to build AI-based cybersecurity pipelines.
iv. **CODE-C: Developer Conference and Tech Expo 2023, hosted by the Cambodia Academy of Digital Technology (CADT)**
    a. Conducted Workshop to equip participants from various sectors with the knowledge and skills needed to leverage cloud-based solutions from Amazon Web Services (AWS) for their business and projects.

Training Experience

Cloud Computing Bootcamp at American University of Phnom Penh:
    i. Training AWS Certified Practitioner (Foundation), AWS Solutions Architect (SAA-CO3), AWS Machine Learning Foundations, AWS Security Foundations.
    ii. IBM Cloud Computing Services – Support Trainer.

Courses Taught Experience

Program Level	Course
Bachelor Faculty of Computer Science & Info. Technology Jerash University	Computer Networks
	Wireless Networks
	Data Analytics
	Cryptography Theory
Bachelor	Java I & II
	C++ I & II

School of Digital Technologies The American University of Phnom Pehn (AUPP)	Python I & II
	Cloud Computing through **Amazon Web Services**
	Cybersecurity Essentials **through EC Council**
	Networking through **Cisco**
	Data Structures
Bachelor MEDIU University	Enterprise Resource Planning
	Decision Support System
	System Analysis & Design
	Management Information System
	E-commerce & Knowledge Management
	Multimedia Technology
	Database System
	Human Computer Interaction
	Java Programming
	Computer Networks
	Computer Architecture
	Operating Systems
	Parallel & Distributed Computing
	Wireless Networks and Mobile Computing
	Data Communication & Telecommunication Systems
	Digital Image Processing
Master MEDIU University Malaysia	Open Source for the Enterprise
	Networks & Routing
	Network Security

Conference & Journal Experience

Conference Committee Member	:	Paperwork and Proceedings Publication for the International Conference on Rural ICT Development (RICTD-2013)
Technical and Logistics Portfolio in Member	:	Information and Communication Technology (ICT) Training in Kedah and Terengganu Telecentres (2014)
Technical Assistant	:	Amateur Radio Project Installation Preparation ITU-UUM (2014)
Editor Proceeding Book	:	International Conference on Smart Computing and Electronic Enterprise 2018 – Malaysia
Conference Organizer	:	• Rural ICT Development (RICTD-2013) International Conference – Malaysia • International Conference on Smart Computing and Electronic Enterprise 2018 – Malaysia
Workshop Committee	:	International Conference on Smart Computing and Electronic Enterprise 2018 – Malaysia

Managerial Editor	:	International Journal of Data Science Research (IJDSR)
Conference Reviewer	:	International Conference on Smart Computing and Electronic Enterprise 2018 – Malaysia
Journal Reviewer	:	● International Journal of Data Science Research (IJDSR) ● International Journal on Contemporary Computer Research (IJCCR)
Conference Creator via EDAS (Conference Management System) Publication Chair	:	International Conference on Smart Computing and Electronic Enterprise – June 2018

Supervision & Evaluation Experience

Supervision

PhD Students : **Research Title**
- A New Model for Challenges of Arabic Language and Semantic Web
- Automated Arabic Essay Scoring of Online Exams based on Semantic
- The Moderating Effect of Demographic Factors on the Acceptance of Mobile L Services in Jordan Institutes.

Master Students : **Research Title:**
- Interactive Teaching Mechanism Using IOT Features in a Smart Classroom
- Internet of Thing System Model for Smart Features in a Smart Campus
- Analysis of Quality of Service of Mobile Ad-Hoc Networks using Various Rules
- Medical Equipment Management System

Examiner

PhD Students : **Research Title:**
- Developing and Evaluating Model & Factors Influencing Usages of M-Commerce in Jordan.

Master Students : **Research Title:**
- Modeling and Evaluating E-Commerce Security in Saudi Arabia Internet

Degree Students **Evaluate Students Final Year Projects**

Curriculum & Research Involvement

Presentation:
- Knowledge Management International Conference (KMIC-2012) – Malaysia.
- 3rd International Computer on Network Application Protocols and Services (NetApps-2012) – Malaysia.
- 2nd Colloquium for Graduate Students 2012, UUM University, Malaysia
- Rural ICT Development (RICTD-2013) International Conference – Malaysia.
- 10th International Conference on Computing and Information Technology (IC2IT) – Malaysia.
- 2nd International Conference on Electronic Design (ICED-2014) – Malaysia.
- 4th Int. Computer on Network Application Protocols and Services (NetApps-2012) – Malaysia.
- 4th International Conference on Internet Applications, Protocols and Services (NETAPPS 2015) – Malaysia.
- International Conference on Smart Computing and Electronic Enterprise 2018 – Malaysia

Participation:
- Postgraduate Enhancement: Proposal Development Workshop 2011.
- 1st Colloquium for Graduate Students 2012, UUM University, Malaysia.
- Postgraduate Survival Seminar Series 2011-2012.
- Technical and Logistics Portfolio: Information and Communication Technology (ICT) training in Kedah and Terengganu Telecentres (2013).
- Technical Assistant: Amateur Radio Project Installation Preparation ITU-UUM (2013).
- Identify critical issues when making a decision or solving a problem.
- Workshop on Code of Practice for Programme Accreditation (COPPA) 2018.
- Workshop on how to prepare TOS samples 2018.
- Workshop on Inculcating a Sustainable Research Culture 2018.
- Workshop on how to Plan 2018.
- Workshop on how to Prepare a Research Projects 2017.
- Workshop on Evaluation of Learning outcomes for Academic Programs 2018.

Membership:
- Member in Internet Society (Malaysia Chapter, Bahrain Chapter, & Emirate United Arab Chapter)

Skills

Programming Skills	Platform and Analysis Tools	Soft Skills

Programming Skills
- Python
- JavaScript
- Java
- C++
- C#

Platform and Analysis Tools
- Amazon Web Service (AWS)
- IBM Cloud
- EC-Council Security Testing Tool
- MATLAB-SIMULINK
- Packet Tracer
- Iperf & Jperf
- Kali OS
- OS Severs
- Utilize GPT Model (LLMs)

Soft Skills
- Self-learning
- Use a variety of sources to access information including computer technology

List Reference

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Stephen J. Ronzano The American University of Phnom Penh Cambodia Assistant Professor, English and Communications s.ronzano@aupp.edu.kh	**Christina Nelson** Recruitment Manager in Higher Education Alveria University, Baghdad, Iraq Former colleague to me at AUPP christinamarienelson77@gmail.com
Tim Holland Instructor, English Preparatory Program The University of Phnom Penh Cambodia holland@aupp.edu.kh	**Mr. Macit Koc** Manager of Turkish Cultural Center The Royal University of Phnom Penh Phnom Penh Cambodia Former of AUIS Business Professor macit.koc@yee.org,tr macitkoc@gmail.com
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