

CURRICULUM VITAE

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1. Personal Data

Date of Birth: 2/5/1985
Nationality: Jordanian

2. Education

- Ph.D. in Telecom and Network Engineering, University of South Wales–UK.
- Master in Telecom and Network Engineering, University of Technology, Sydney.
- B.Sc. Telecom Engineering, Yarmouk University, Irbid, Jordan.

3. Ph.D. Dissertation

An Efficient Search Methodology for Localisation of Randomly Distributed Wireless Sensor Network - with Application for Early Warning of Forest Fires.

4. Employment

Academic Positions

- Head of Cyber Security Department and Computer Information System Department, Al-Zaytoonah University of Jordan, Amman, Jordan, 2023 –present
- Associate Professor, Cyber Security Department, Al-Zaytoonah University of Jordan, Amman, Jordan, 2022 -2023
- Associate Professor, Computer Information System Department, Al-Zaytoonah University of Jordan, Amman, Jordan, 2021 -2022
- Assistant Professor, Computer Information System Department, Al-Zaytoonah University of Jordan, Amman, Jordan, 12/10/2014 -2021



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- Part Time Lecturer, Network Engineering and Security Department, Jordan University of Science and Technology, Irbid, Jordan, 1/9/2014- 1/2/2015.
- Visiting Tutor, Computer Network Department, Arab Open University, Amman-Jordan, 1/9/2014-1/7/2015
- Part Time Lecurer, Computer Engineering Department, University of Wales, Newport, Newport – UK 1/9/2012-15/12/2012

5. Research Interests

- Wireless Sensor Network
- WSN Application
- Computer Network and Communication
- Road Traffic Management Systems
- Localization
- Forest Fire Detection Systems, Natural Disasters Detection Systems
- IOT
- Ad hoc Networks
- Intelligent Transportations Systems
- Forest Fire Detections
- Optical Fiber
- Cloud Computing
- Satellite communication
- Robotics
- Machine Learning
- Security

6. Membership in Scientific Societies and Associations

- **World's Top 2% Scientists - Stanford University & Elsevier – 2024 and 2025**
- **Cardiff Innovation Network- UK**

7. Teaching Experience

- *Postgraduate Courses*
 - Advanced Transmission Network
 - Networks
 - Internet of Things
- *Undergraduate Courses*
 - Internet of Things
 - Robotics



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- Computer Network
- Network Transmission and Security
- Digital Logic Design
- Computer Architecture
- Wireless Network
- Network Protocols
- Network Monitoring
- Secure Communication Protocols
- Graduate Project
- Enabling Technologies for Digital Media
- Information Technology
- Programming in Java
- Communication Skills

8. Supervision and examiner of Graduate Research

- Supervising a master student, "Testing IoT Device Functionality Via Interface: An Experimental Study", Al-Zaytoonah University of Jordan, Jordan, 2025.
- Supervising a master student, " Developing Automatic Teast Generation Approach Using Machine Learning Algorithms to Ensure Software Quality ", Al-Zaytoonah University of Jordan, Jordan, 2024.
- Supervising a master student, " IoT Data Analytics Platform: A Software-Defined Model.", Al-Zaytoonah University of Jordan, Jordan, 2023.
- Supervising a master student, " A Proposed Quality Model for 'Gaming as A Service (GaaS) Through Comparative Analysis of Cloud Gaming Platforms.", Al-Zaytoonah University of Jordan, Jordan, 2023.
- Supervising a master student, " Multivariate Outlier Detection for Forest Fire Data Aggregation Accuracy.", Al-Zaytoonah University of Jordan, Jordan, 2020.
- Supervising Master Student, "Using VTL Algorithm for Road Traffic Optimization", Al-Zaytoonah University of Jordan, 2020.
- External Examiner for Ph.D Thesis titled "Development of Framework for Forest Fire Disaster Management using Sensor Networks." submitted by Mr. V. Parthipan from University of SIMATS, CHENNAI, 2021.

9. Grants

- Research Project Named: "A Non- Invasive Gait Analysis for Parkinson's Disease Screening Using Computer Vision and Machine Learning Techniques" 2024-2026, in collaboration between AlZaytoonah University of Jordan and Multimedia University of Malaysia.
- Research Project Named: "Forest fire detection, prediction and prognosis project", 2021-2022, Al-Zaytoonah University of Jordan.
<https://es.zuj.edu.jo/forest/>



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- Research Project Named: "A Novel Localization and Monitoring Technique for Wireless Sensor Networks", 2015-2017, Al-Zaytoonah University of Jordan.
- Research Project Named: "Wireless Sensor Networks for Forest Fire Detection" 2012-2014, University of Wales, Newport UK. Part of this project has been funded initially by the Welsh Government (ESDF-Early Stage Development Fund). The Rest of the fund provided by A4B to produce a prototype as a proof of concept stage (POC) to introduce it to the market.

10. Membership of Committees

University

- University Board Member
- College Council Member.
- Member in University Computer Center Council in ZUJ.
- Coordinator of Faculty E-Learning Committee.
- Member in the committee of Kaffaa Exam Follow-up.
- Cardiff Innovation Network - UK.
- Member of the Study Plan and Educational Resources Committee.
- Committee of Guidance, Equivalence, Training, and Follow-up of Graduates.

11. Professional and Scientific Meetings

Scientific Meetings Organized

- Editor in Chief in Journal of Sustainable Smart Systems in Education and Environment (JSSSEE)
- Editorial Board Member of the Journal of Artificial Intelligence and Robotics (JAIAr)
- Editorial Board Member of the International Journal of Advances in Soft Computing and Its Applications (IJASCA)
- Editorial Board Member of the Sustainable Forestry Journal
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- TPC Member of 2025 The 2025 12th International Conference on Information Technology (ICIT 2025), May 2025
- Chair of Workshop Committee in The 2025 12th International Conference on Information Technology (ICIT 2025), May 2025
- TPC Member of CCTS 2025: 2nd International Conference on Creativity, Technology, and Sustainability, October 2025.
- **TPC Member** of 2023 The 11th International Conference on Information Technology (ICIT), Jordan, August 2023.
- TPC Member of 2021 The 2021 10th International Conference on Information Technology (ICIT 2021), April 2021
- **TPC Member** of 2020 International Conference on Computers, Information Processing and Advanced Education (CIPAE), October 2020.



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- **Preparation Organization and Implementation Committees** in the 2019 IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology (JEEIT), Jordan, April 2019.
- **Preparation Organization and Implementation Committees** in the 8th International Conference on Information Technology ICIT, Jordan, May 2017.
- **And many others**

Participation in Scientific meetings

- 2024 National Qualification Framework (NQF) organized by ZUJ
- 2024 Judge at a Cybersecurity and Artificial Intelligence Creative Idea Competition
- 2023 Applications in the Use of E-Learning Systems organized by ZUJ
- 2019 WIPO/PCT Workshop Organized by University of Jordan.
- 2019 WIPO National Workshop on Intellectual Property Policies for Universities and Research Institutions Organized by WIPO & Ministry of Industry and Trade
- 2019 Workshop on IOT&5G organized by JEEIT and IEEE
- 2018 Tainting Course on Scientific Writing organized by ZUJ
- 2018 Workshop on IP and Patents organized by ZUJ& Ministry of Industry and Trade
- 2016 Training on Waspnote & Meshlium Platform organized by Libelium- Spain.

12. Publications

Journals:

- Hui Chen, Tee Connie, **Ahmad Alkhatib**, Mahmoud Farfoura “A Non-Invasive Gait-Based Screening Approach for Parkinson’s Disease Using Time-Series Analysis” in *Symmetry*, 2025 \
- Ameen Shaheen, **Ahmad Alkhatib**, Mahmoud Farfoura, Rand Albustanji “Developing a User-Centric Quality Model for Gaming as a Service (GaaS): Enhancing User Satisfaction Through Key Quality Factors” in *IET Software*, 2025
- Khalid Mohammad Jaber, **Ahmad Alkhatib**, “EFFSIP: Efficient forest fire system using IoT and parallel computing” in *Egyptian Informatics Journal*, 2025
- Ala Mughaid, Shadi Alzu’bi, **Ahmad AA Alkhatib**, Adel AlZioud, Alaa Al Ghazo, AL-Aiash Issa “Simulation-based framework for authenticating SCADA systems and cyber threat security in edge-based autonomous environments” in *Simulation Modelling Practice and Theory*, 2025



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- M Farfoura, I Mashal, , **Ahmad Alkhatib**, RM Batyha “*A lightweight machine learning methods for malware classification*” in *Cluster Computing*, 2025.
- Mahmoud E Farfoura, Ibrahim Mashal, **Ahmad Alkhatib**, Radwan M Batyha, Didi Rosiyadi “*A novel lightweight Machine Learning framework for IoT malware classification based on matrix block mean Downsampling*” in *Ain Shams Engineering Journal*, 2025.
- **Ahmad Alkhatib.**, Layla Albdour, Fayyad, Hussien Ali “*Blockchain-Enhanced Multi-Factor Authentication for Securing IoT Children's Toys*” in *International Journal of Computational and Experimental Science and Engineering*, 2024.
- Mahmoud E Farfoura, **Ahmad Alkhatib**, Deema Mohammed Alsekait, Mohammad Alshinwan, Sahar A El-Rahman, Didi Rosiyadi, Daa Salama AbdElminaam “*A Low Complexity ML-Based Methods for Malware Classification*” in *Computers, Materials & Continua*, 2024.
- Khalid Jaber, Mohammed Lafi, **Ahmad AA Alkhatib**, Amani Khamis AbedAlghafer, Mohammad Abdul Jawad, Amal Qassed Ahmad “*Comparative Study for Virtual Personal Assistants (VPA) and State-of-the-Art Speech Recognition Technology*” in *International Journal of Computational and Experimental Science and Engineering*, 2024.
- Seraj Fayyad, **Ahmad Alkhatib**, Farhan Abdel-Fattah, Hani Almimi “*A Methodology for Dynamic Security Risks Assessment in Interconnected IT Systems*” in *Journal of Communications Software and Systems*, 2024.
- **Ahmad A.A. Alkhatib**, Khalid Jaber , “*FDPA internet of things system for forest fire detection, prediction and behaviour analysis*”, *IET Wireless Sensor Systems*, 2024.
- **Ahmad A.A. Alkhatib**, Khalid Jaber , Alzo’by, Hassan; Abdallah, Mohammad; Salah, Mousa “*Exploring Progress in Forest Fire Detection, Prediction, and Behavior: An In-Depth Survey*”, *International Journal of Computing and Digital Systems*, 2024.
- **Ahmad A.A. Alkhatib**, Khalid Jaber , “*Advances in Forest Fire Detection, Prediction and Behavior: A Comprehensive Survey*”, *Journal of Computer Science*, 2024.
- **Ahmad A.A. Alkhatib**, A. A. Hnaif and T. Sawalha, "A New System for Road Traffic Optimisation Using the Virtual Traffic Light Technology," *Computer Systems Science and Engineering*, vol. 47, no.1, pp. 637–656, 2023
- Rand N Albustanji, Shorouq Elmanaseer, **Ahmad A.A. Alkhatib** “*ROBOTICS FIVE SENSES PLUS ONE :AN OVERVIEW*” , *Robotics*, MDPI, 2022.



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- **Ahmad A.A. Alkhatib**, Khulood Abu Maria, Shadi Alzu'bi, Eman Abu Maria, "Smart Traffic Scheduling for Crowded Cities Road Networks", *Egyptian Informatics Journal. Elsevier* (2022).
- **Ahmad A.A. Alkhatib**, Khulood Abu Maria, Shadi Alzu'bi, Eman Abu Maria, "Novel System for Road Traffic Optimisation in Large Cities", *IET Smart Cities. IET* (2022).
- **Ahmad A.A. Alkhatib**, Q Abed-Al, "Multivariate outlier detection for forest fire data aggregation accuracy", *Intelligent Automation & Soft Computing*, (2022).
- **Ahmad A.A. Alkhatib**, Abeer Asbagh, Randa Maraqa, Shadi Alzubi "Load Balancing Techniques in Cloud Computing: Extensive Review" *Advances in Science, Technology and Engineering Systems Journal*(2021).
- **Ahmad A.A. Alkhatib**, Qusay Abedal, Tarek Kanan "Wireless Sensor Network for Forest Fire Detection and behavior Analysis" *International Journal of Advances in Soft Computing and Its Applications (IJASCA)* (2021)
- Tarek Kanan, Bilal Hawashin, Shadi AlZu'bi, Eyad Almaita **Ahmad A.A. Alkhatib**, Khulood Abu Maria, and Mohammed Elbes "Improving Arabic Text Classification Using P-Stemmer" *Recent Patents on Computer Science- Bentham Science*(2020).
- **Ahmad A.A. Alkhatib**, Thaer Sawalha, "Techniques For Road Traffic Optimization: An Overview," *Journal of Computer Science and Engineering (IJCSE)*, 11:4,2020
- **Ahmad A.A. Alkhatib**, Mohammed Elbes and Eman Abu Maria, "Improving Accuracy of Wireless Sensor Networks Localisation Based on Communication Ranging", *IET Communications. IET* (2020).
- **Ahmad A.A. Alkhatib**, "Proposed Simple Low Cost System for Road Traffic Counting", *International Journal of System, Control and Communications(IJSCC). InderScience* 2020.
- Elbes, M., **Alkhatib, A.**, Al-Fuqaha, A. "Using phase shift fingerprints and inertial measurements in support of precise localization in urban areas", *Personal and Ubiquit Computing. Ssprinter* (2019).
- **Ahmad A.A. Alkhatib**, Adnan Hnaif and Tarek Kanan, "Proposed Simple System for Road Traffic Counting", *International Journal of Sensors, Wireless Communications and Control-Bentham Science* 9: 269-277, (2019).
- **Alkhatib, A.A.**, Alia, M., Hnaif, A., "A Novel Method for Localising a Randomly Distributed Wireless Sensor Network", *International Journal of System Assurance Engineering and Management. Springer*. (2018).



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- **Alkhatib, A.A.**, Alia, M., Hnaif, A., *Smart System for Forest Fire Using Sensor Network*", International Journal of Security and Its Applications (IJSIA). Vol (7), July 2017.
- Nabulsi, A., **Alkhatib, A.A.**, Quiam, F., *"A New Method for Boolean Function Simplification"*. International Journal of Control and Automation. 10 (11), (2017).
- Alajmi, F., **Alkhatib, A.A.**, *"Enhanced Teaching Model (ETM) for Teaching Programming Languages"*, International Journal of Computer Applications (IJCA), Vol. 121, 2015.
- **Alkhatib, A.A.**, *"A Review on Forest Fire Detection Techniques"*, International Journal of Distributed Sensor Network, Hindawi group, Vol. 2014, 2014.
- **Alkhatib, A.A.**, *"Wireless Sensor Network for Forest Fire Detection and Decision Making"*, International Journal of Advances in Engineering Science and Technology (IAEST), Vol. 2, Issue 3, 2013.
- **Alkhatib, A.A.**, *"Smart and Low Cost Technique for Forest Fire Detection Using Wireless Sensor Network"*, International Journal of Computer Applications (IJCA), Vol. 81, 2013.
- **Alkhatib, A.A.**, Baicher, G.S., Darwish W.K. *"Wireless Sensor Networks- An Advanced Survey"*, International Journal for Engineering and Innovative Technology (IJEIT) V2, Issue 7, 2013.

Books and Book Chapters

- **Alkhatib, A.A.** *Forest Fire Monitoring*. In: Janusz Szmyt of Book Forest Fire.: (In Techopen). (2018).

Conferences

- Rand N Albustanji, **Ahmad Alkhatib**, Ameen Shaheen *"Technical and Ethical Strategies to Prevent Machine Learning Models from Exploiting Personally Identifiable Information (PII)"* 2025 12th International Conference on Information Technology (ICIT).
- **Ahmad AA Alkhatib**, Jaber, K., AL-madi *"A Proposed Automatic Forest Fire Extinguishing and Prevention System Using Drones"*. 2024 IEEE International Humanitarian Technologies Conference (IHTC), 2024



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- Awf Alhalaybeh, **Ahmad AA Alkhatib**, Rand N Albustanji, Shorouq Elmanaseer, Tarek Kanan, Rashed Alsakarnah “*Facilitating Metaverse Integration in Education via Extended Reality and the Internet of Things: AN OVERVIEW*”. 2023 International Conference on Information Technology (ICIT), 2023.
- Shorouq Elmanaseer, **Ahmad AA Alkhatib**, Rand N Albustanji. “A Proposed Technique for Business Process Modeling Diagram Using Natural Language Processing” , 2023 International Conference on Information Technology (ICIT), 2023.
- Heba Alamereah, **Ahmad AA Alkhatib**, Shorouq Elmanaseer, Rand N Albustanji, Hani M Al-mimi, Mohammad Al Rawajbeh. “*A Survey on Cyber Security in Smart Grids using Internet of Things*” 2023 International Conference on Information Technology (ICIT), 2023.
- Ashraf Abzakh, **Ahmad AA Alkhatib**, Omar Rabayah, Shorouq Elmanaseer, Rand N Albustanji, Nagham Almadi. “*A Survey: Threat Hunting for the OT Systems*” 2023 International Conference on Information Technology (ICIT), 2023.
- Suha Afaneh, Mohammad Rasmi Al-Mousa, Hilal Shrif Al-hamid, AL-Awasa Bara'h Suliman, Mohammad Alia, Hani Almimi, **Ahmad A Alkhatib**. “*Security Challenges Review in Agile and DevOps Practices*” 2023 International Conference on Information Technology (ICIT), 2023.
- Sara Albakhit, **Ahmad AA Alkhatib**, Rand N Albustanji, Shorouq Elmanaseer, Mosa Salah, Reem Amro, “*A Survey of IoT Healthcare Applications*”, 2023 International Conference on Information Technology (ICIT), 2023.
- Ali Al-Dahoud, Mohamed Fezari, **Ahmad AA Alkhatib**, Mohamed Ali Haoufa, Ahmad Al-Dahoud, Hani Mimi, “*Cost Efficient IoT as Wearable Device in E-Health Monitoring System for Elderly People*”, Conference on Sustainability and Cutting-Edge Business Technologies, 2023.
- **Ahmad A.A. Alkhatib**, Zeyad Mohammad, Eman Abu Maria, “*ROAD TRAFFIC Management SOLUTIONS*”, International Conference on Information Technology (ICIT), 2021.
- Z Mohammad, **Ahmad A.A. Alkhatib** M Lafi, A Abusukhon, D Albashish, J Atwan, “*Cryptanalysis of a Tightly-Secure Authenticated Key Exchange without NAXOS Approach Based on Decision Linear Problem*”, International Conference on Information Technology (ICIT), 2021.
- **Ahmad A.A. Alkhatib**, A Al Sabbagh, R Maraqa, “*Pubic Cloud Computing: Big Three Vendors*”, International Conference on Information Technology (ICIT), 2021.
- **Ahmad A.A. Alkhatib**, Sawalha, T., Zoubi, S., “*Load Balancing Techniques in Software-Defined Cloud Computing: an overview*”, The 7th IEEE International Conference on Software Defined Systems (SDS2020), Paris, France. April 20-23, 2020.
- M. AbuNaser and **A. A. Alkhatib**, “*Advanced Survey of Blockchain for the Internet of Things Smart Home*”, 2019 IEEE Jordan International Joint



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Conference on Electrical Engineering and Information Technology (JEEIT), Amman, Jordan, 2019, pp. 58-62.

- **Alkhatib, A.A.**, *"Sub-Network Coverage Method as an Efficient Method of Wireless Sensor Networks for Forest Fire Detection"*, The International Conference on Internet of Things and Cloud Computing (ICC 2016.), The Møller Centre-CHURCHILL COLLEGE) Cambridge, United Kingdom, March 2016.
- **Alkhatib, A.A.**, Baicher, G.S., *"MAC Layer Overview for Wireless Sensor Networks"*, 2012 International Conference on Computer Networks and Communication Systems (CNCS 2012), Malaysia, 2012.
- **Alkhatib, A.A.**, Baicher, G.S. *"Wireless Sensor Network Architecture"*, 2012 International Conference on Computer Networks and Communication Systems (CNCS 2012), Malaysia, 2012.
- **Alkhatib, A.A.**, Baicher, G.S., *"Overview on Wireless Sensor Network"* , 2012 International Conference on Computer Networks and Communication Systems (CNCS 2012), Malaysia, 2012.
- **Alkhatib, A.A.**, *"A Review on Wireless Sensor Networks Applications"*, The 2011 Conference of Innovation in Computing and Engineering Machinery (CICEM'11) - ACM Chapter Conference, Amman, Jordan, 2011