

CURRICULUM VITAE

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1. Personal Data

Date of Birth:

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, 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

6. Membership in Scientific Societies and Associations

- Cardiff Innovation Network- UK

7. Teaching Experience

- *Postgraduate Courses*
 - Advanced Transmission Network
 - Networks
 - Internet of Things
- *Undergraduate Courses*
 - Internet of Things
 - Robotics
 - Computer Network
 - Computer Network (2)
 - Network Transmission and Security
 - Digital Logic Design



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- 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, " Multivariate Outlier Detection for Forest Fire Data Aggregation Accuracy.", Al-Zaytoonah University of Jordan, Jordan.
- 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: "Forest fire detection, prediction and prognosis project", 2021-2022, Al-Zaytoonah University of Jordan. <https://es.zuj.edu.jo/forest/>
- 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.
- Coordinator of the Examinations and Evaluation in CIS.
- Member of the Study Plan and Educational Resources Committee in CIS



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Department.

- Committee of Guidance, Equivalence, Training, and Follow-up of Graduates.

11. Professional and Scientific Meetings

Scientific Meetings Organized

- 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
- **TPC Member** of 2023 The 11th International Conference on Information Technology (ICIT), Jordan, August 2023.
- **TPC Member** of 2020 International Conference on Computers, Information Processing and Advanced Education (CIPAE), October 2020.
- **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

- 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 Couse 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:



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- **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.
- **Ahmad A.A. Alkhatib**, Khulood Abu Maria, Shadi Alzu'bi, Eman Abu Maria, "Smart Traffic Scheduling for Crowded Cities Road Networks", *Egyptian Informatics Journal. Elserver* (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*.Springer (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).
- **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., **Alkatib, 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

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



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- **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