

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

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



6. Membership in Scientific Societies and Associations

- Cardiff Innovation Network- UK

7. Teaching Experience

• *Postgraduate Courses*

- Advanced Transmission Network

• *Undergraduate Courses*

- Computer Network
- Computer Network (2)
- Network Transmission and Security
- Digital Logic Design
- Computer Architecture
- Wireless Network
- Network Protocols
- Network Monitoring
- Graduate Project
- Enabling Technologies for Digital Media
- Information Technology
- Programming in Java
- Communication Skills

8. Supervision of Graduate Research

- Supervising a master student, " Forest Fire System for Detection, Prediction and Prognoses using Wireless Sensor Networks and Machine Learning", Al-Zaytoonah University of Jordan, Jordan.
- Supervising a master student, "An Automated System for Early Diagnosis of Parkinson Disease Using Wearable Sensors", Al-Zaytoonah University of Jordan, Jordan
- Supervising Master Student, "Using VTL and Genetic Algorithm for Road Traffic Optimization", Al-Zaytoonah University of Jordan, 2020.

9. Grants

- 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

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

11. Professional and Scientific Meetings

Scientific Meetings Organized

- **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.

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:

- Tarek Kanan, Bilal Hawashin, Shadi AlZu'bi, Eyad Almaita **Ahmad Alkhatib**, Khulood Abu Maria, and Mohammed Elbes "*Improving Arabic Text Classification Using P-Stemmer*" *Recent Patents on Computer 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* 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).



QFG11/0110 - 3.1E

Curriculum Vitae Form - Procedures of Appointment and Promotion Committee

- 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

- **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.
- **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.



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- **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