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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

- Associate Professor, Computer Informtion System Department, Al-Zaytoonah University of Jordan, Amman, Jordan, 2021 -present
- Assistant Professor, Computer Informtion System Department, Al-Zaytoonah University of Jordan, Amman, Jordan, 12/10/2014 -2021
- Part Time Lecturer, Netwotk 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. <u>Research Interests</u>

- 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

6. <u>Membership in Scientific Societies and Associations</u>

- Cardiff Innovation Network- UK

7. <u>Teaching Experience</u>

- *Postgraduate Courses*

  – Advanced Transmission Network
  – Networks

- *Undergraduate Courses*

  – Internet of Things
  – Robotics
  – 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. <u>Supervision of Graduate Research</u>

- 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. <u>Grants</u>

- Research Project Named: **"**Forest fire detection, prediction and prognosis project", 2021-present, Al-Zaytoonah University of Jordan.
- 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. <u>Membership of Committees</u>

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

11. <u>Professional and Scientific Meetings</u>

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 Waspmote & Meshlium Platform organized by Libelium- Spain.

12. **Publications**

Journals:

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

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- 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 (IJAEST), 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**, 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.

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- 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.

- **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