Date:

CURRICULUM VITAE

PERSONAL INFORMATION

Faculty Member Name: Layal Raja Abdelkareem Alzabin
Academic Rank: Assistant Professor
College: Information Technology
Department: Computer Science
Nationality: Jordanian
Address: Amman/ Jordan
Phone No:0790561981
E-mail: l.alzabin@aau.edu.jo

ACADEMIC QUALIFICATIONS

Degrees with fields, institution, and date

- B.S. in Computer Science , **Mutah University**, 2003.
- M.Sc. in Computer Information System, **Arab Academic for Finance and Banking (ABBFS),** 2008.
- Doctor of Philosophy: School of Computer Science, University Sains Malaysia (USM). February 2015 – June 2019. (QS Global World Ranking #=165) Major/Fine Specialization: computer Science/IOT & AI
  - Thesis title: PROBABILISTIC EVENT DETECTION MECHANISM FOR INDOOR ENVIRONMENT USING WIRELESS SENSOR NETWORK

ACADEMIC EXPERIENCE

- Duration: 2023 UNTIL NOW
- University: Amman Arab University
- Academic Rank: Assistant professor
- Date the rank was granted: 2021
- The body granting the rank: **Al Zahra College for Women.**
- College: Information Technology
- Country: Jordan

- Duration: 2021 - 2023
- University: **Al Zahra College for Women.**
- Academic Rank: Assistant professor
- College: Information Technology
- Country: Oman

- Duration: 2008/2013
- University: Sattam bn Abd Alaziz University
- Academic Rank: Lecturer
- College: Information Technology
- Country: Saudi Arabia

NON-ACADEMIC EXPERIENCE

- Duration: 2004-2008
- Institution: Ministry of Education
- Department: Information Technology
- Country: Jordan

CERTIFICATIONS OR PROFESSIONAL REGISTRATIONS

- **Maple (mathematical and analytical software).**

- **MATLAB (Simulation Environment).**

- **Fire Dynamic Simulator (FDS).**

- **PyroSim Fire Simulation Environment.**

CURRENT MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

- **Institute of Electrical and Electronics Engineers (IEEE)**

HONORS AND AWARDS

- None

SERVICE ACTIVITIES

- **Counselor of IEEE AAU**
- **AAU IT CLUB**

THE MOST IMPORTANT PUBLICATIONS IN LAST FIVE YEARS

1. Shehab, M., & Alzabin, L. R. (2022). Evaluating the Effectiveness of Stealth Protocols and Proxying in Hiding VPN Usage. Journal of Computational and Cognitive Engineering.

2. Al-Zabin, L. R., Al-Wesabi, O. A., Al Hajri, H., Abdullah, N., Khudayer, B. H., & Al Lawati, H. (2023). Probabilistic detection of indoor events using a wireless sensor network-based mechanism. *Sensors*, *23*(15), 6918.

3. Baidaa Hamza Khudayer, **Lial Raja Alzabin**, Mohammed Anbar, Ragad M Tawafak, Tat-Chee Wan, Abir AlSideiri, Sohail Iqbal Malik, Taief Alaa (2023). A Comparative Performance Evaluation of Routing Protocols for Mobile Ad-hoc Networks. (IJACSA) International Journal of Advanced Computer Science and Applications, Vol. 14, No. 4, 2023.

4. Hamza Khudayer, Baidaa, **Alzabin, Lial**, Anbar, Mohammed, Tawafak, Ragad , Al-Amiedy, Taief, Iqbal Malik, Sohail, Alfarsi, Ghaliya. (2022). AN OPTIMIZING REBROADCAST MECHANISM FOR MINIMIZING THE CONTROL OVERHEAD IN MOBILE AD- HOC NETWORKS. Journal of Theoretical and Applied Information Technology. 100. 2518-2527.

5. **Missif, L.R.,** Kadhum, M.M., Wan, T.-C., 2016, "On event detection and tracking systems in sensor networks: Classification of structure and mechanisms", Advanced Science Letters, 22(10), pp. 2700-2704.

6. **Missif, L. R.**; Kadhum, M. M., "Indoor Environmental Event Detection and Localization using Stationary Wireless Sensor Networks", Submitted to Journal of Engineering Science and Technology (JESTEC), Scopus indexed Open Access Journal, ISSN: 1823-4690.

7. **Missif, L. R.**; Kadhum, M. M., "Reliable Environmental Event Tracking based on Statistical Approaches", Submitted to Cluster Computing: The Journal of Networks, Software Tools and Applications, Springer ISI indexed Journal (IF: 2.040), ISSN: 1386-7857 (Print) 1573-7543 (Online).

8. **) Lial. R AlZabin**, M.JannathlFirdouse, Baidaa H Khudayer2 " A Literature Survey on Event Detection for Indoor Environment using Wireless Sensor Network", ICAETA-2023: International Conference on Advanced Engineering, Technology and Applications, Istanbul, Turkey, March 10-11, 2023 accepted papers will be published in Spriner book series Communications in Computer and Information Science (CCIS)

9. **Missif, L. R**., Hanshi, S. M., Karuppayah, S., Manickam, S., & Labbad, H. (2019, May). An Efficient Indoor Event Detection Mechanism Using Wireless Sensor Network. In 2019 2nd International Conference on Computer Applications & Information Security (ICCAIS) (pp. 1-6). IEEE.

10. **Missif, L. R.**; Kadhum, M. M., "Mathematical Modelling of Optimal Node Deployment for Indoor Wireless Sensor Networks", International Symposium on Innovation on

Computer Science and Engineering (ISICSE 2016), Paper ID 224, Hamburg, Germany, September 4-5,2016. Accepted to be published by International Journal of Electrical and Computer Engineering (IJECE), ISSN: 2088-8708, Scopus Indexed Journal, 2016.

11. **Missif, Lial Raja**, and Mohammad M. Kadhum. "Dynamic sensing model for accurate delectability of environmental phenomena using event wireless sensor network." AIP Conference Proceedings. Vol. 1872. No. 1. AIP Publishing LLC, 2017.

12. Huda Alhalabi, Tat-Chee Wan, **Lial Missif,** Mohammed Elhalabi, "Performance Analysis of the Constructive Interference Flooding in Wireless Sensor Networks", 8th International Conference on Information Technology (ICIT 17), Amman, Jordan, 17-19 May 2017.

13. 11th Int'l Conference on Mathematical Modeling in the Physical Sciences (September 5-8, 2022), International Year of Basic Sciences for Sustainable Development.

INSTITUTIONAL PROFESSIONAL DEVELOPMENT ACTIVITIES IN THE LAST FIVE YEARS

WORKSHOPS ATTENDANCE

- **1. OQF Challenges and Benefits (Invitation by OAQHE)**

- **2. Cyber Security Attacks**

INTERNATIONAL REFEREE/REVIEWER

- **(1) Journal of AIP (American Institute of Physics).**

- **(2) Egyptian Informatics Journal**

- **(3) Open Life Sciences**

- **(4) Journal of Applied Artificial Intelligence**

RESEARCH LINK (Scopus and Google Scholar)

- **https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=lial+alzabin&btnG=&oq=L**
- **https://www.scopus.com/search/form.uri?display=basic#basic**

LANGUAGES

- **English**
- **Arabic**