



CURRICULUM VITAE

Prof. Dr Aysh Alhroob

*Software Engineering/Faculty of Science & Information Technology,
Al-Zaytoonah University of Jordan, Amman, Jordan*

E-mail: Aysh@zuj.edu.jo, Ayshco@yahoo.com

Homepage: <https://scholar.google.com/citations?user=ImvuE0MAAAAJ&hl=en>



1. Personal Data

Date of Birth: 8/1979
Nationality: Jordanian

2. Education

- Ph.D. (Software Engineering) 2010, Bradford University, Bradford, UK.
- M.Sc. (Computer Technology) 2002, IICT, Sindh University, Sindh, Pakistan.
- B.Sc. (Computer Technology) 2000, IICT, Sindh University, Sindh, Pakistan.

3. Ph.D. Dissertation

Automatic test cases generation from software specifications modules, Bradford University, Bradford, UK.

Employment

Academic Positions

- Full Professor Software Engineering Dep, Al-Zaytoonah University of Jordan, Amman, Jordan.
2023-Present
- Full Professor Software Engineering Dep, Isra University, Amman, Jordan
2020- 2023
- Associate Professor, Software Engineering Dep, Isra University Amman, Jordan
2016- 2020
- Assistant Professor, Software Engineering Dep, Isra University, Amman, Jordan
2011-2015
- Lecturer, Software Engineering Dep, Isra University, Amman, Jordan
2002-2008

Administrative Positions



- Dean, Faculty of, Science & Information Technology, Al-Zaytoonah University of Jordan, Amman, Jordan.
2023-Present
- Dean of Scientific Research and Graduate Studies, Isra University, Amman, Jordan 2021- 2023
- Dean , Faculty of Information Technology, Isra University, Amman, Jordan 2016-2018
- Head of Software Engineering Department, Dean , Faculty of Information Technology, Isra University, Amman, Jordan 2013-2015.
- International Institutions Ranking Coordinator (QS, THE, Scimgo, U-Multi Rank), Isra University, Amman, Jordan 2021-2023.
- Head of Graduate Studies Council Isra University, Amman, Jordan. 2021-j2023
- Head of Scientific Research Council, Isra University, Amman, Jordan 2021-2023
- Head of Academic Programs Committee - to ensure the QUALITY of Jordanian academic programs. (At Faculty level), 2018-2023 (Golden Level)
- Head of Computer Centre Board, Isra University, 2016-2018.
- Head of E-learning Centre Board, Isra University, 2016-2018.

4. Research Interests

Software Testing, Software Requirement, Natural Language Processing, Big Data, DataScience, Data Analysis, Computer Algorithm and AI Techniques

5. Membership in Scientific Societies and Associations

- Member of "International Association of Engineers" (IAENG) 2021- Present
- Member of, "Jordan Artificial Intelligent Initiative". (Founder Member)
Jordan. 2021- Present
- Member of, "Association of Arabic Content Enrichment". (Founder
Member) Jordan. 2012- Present
- Member of, "Association of Software Quality Assurance". (Founder
Member) Jordan 2015- Present
- Member of TECHNICAL COMMITTEE of:
 - International Conference on Management Engineering. 2018
 - Software Engineering and Service Sciences (ICMSS) ACM. 2019
 - Asia Service Sciences and Software Engineering Conference 2020
- Reviewer in: Journal of Big Data, International Journal of Data Mining, Modelling and Management and many others.



QFG11/0110 - 3.1E

Curriculum Vitae Form - Procedures of Appointment and Promotion Committee

- Member of STEERING COMMITTEE of the International Arab Conference on Information Technology (ACIT) 2017. 2017 and 2018
- PROGRAM COMMITTEE MEMBER of IEEE International Conference on Software Knowledge Information (SKIMA) 2009-2011
- PROGRAM COMMITTEE MEMBER of the International Arab Conference of e- Technology. 2014



QFG11/0110 - 3.1E

Curriculum Vitae Form - Procedures of Appointment and Promotion Committee

6. Honors and Awards

Honorary Life Membership in Council of the University of Bradford, UK.

7. Fellowships and Scholarships

- International Institutions Ranking Coordinator (QS, THE, Scimgo, U-Multi Rank), 2021-2023.
- Head of Graduate Studies Council 2021-2023
- Head of Scientific Research Council, 2021-2023
- Member of Jordan National Qualification Framework committee (Jordanian Universities Level).
- Member of Accreditation committees (Jordanian Universities Level).
- Member of E-learning committee, (At university level), Isra University, 2021-
- Member of Higher Committee for ABET Accreditation Faculty of IT, Isra University, 2019-Present.
- Head of Academic Programs Committee - to ensure the QUALITY of Jordanian academic programs. (At Faculty level), 2018-present (Golden Level)
- Head of Computer Centre Board, Isra University, 2016-2018.
- Head of E-learning Centre Board, Isra University, 2016-2018.
- Member of Graduate Studies Committee (At university level), Isra University, Faculty of IT, 2013-2018.
- Member of Graduate Studies Committee (At Faculty level), Isra University, Faculty of IT, 2013-2018.
- Member of the Software Engineering Master Program Committee, Isra University, Faculty of IT, 2013-Present.
- Member of the Scientific Research Committee, Isra University, (At University level), 2013-2018.
- Member of Council Committee, Information Technology Faculty, Isra University, 2013-2018.
- Member of E-learning Center Board, Isra University, 2012-2015
- Member of Computer Center Board, Isra University, 2012-2015

9. Teaching Experience

- **Graduate Courses**
 - Advanced Software Testing
 - Knowledge Engineering
 - Scientific Research Methodologies
 - Agile Engineering Methods and Practices
 - Advanced of Software Requirement
- **Undergraduate Courses**
 - Software Testing
 - Software Requirement Engineering



QFG11/0110 - 3.1E

Curriculum Vitae Form - Procedures of Appointment and Promotion Committee

- Object Oriented Software engineering
- Project Management
- Software Design
- Fundamental of Software Engineering
- Computer Architecture
- System Analysis
- Software Tools
- Technical Writing
- Web Design 1+2
- Multimedia systems

10. Supervision of Graduate Research

Supervision:	Student Name
Risk Mitigation Model in Agile Approach.	Areej Naddaf
Enhancement of Acceptance Testing in Agile Approach.	Randa Fahmi
Software Requirement Elicitation Using AI Techniques.	Rawan Alheisa
Generation of Sequence Diagram Automatically From Use Case Model Using GA	Heba Nassar
Examining the Factors Influencing Distance Learners in Learning Management System (LMS)	Mariam Alhudathi
An Application of Correctness and Completeness to Enhance Requirements Specification	Yazan Kasabreh
Development of Optimized Mobile Agent Task Pattern Using Push-All-Data Strategy	Rafid Kahtan
Automation Approach to Enhance Code Refactory	Bassma Alsrour
Privacy in Cloud Computing: Intelligent Approach	Rusul Mumtaz
Using Data Mining Techniques and Ontology Concepts to Design an Agent for Diabetic Diagnostic	Shajan Shammed
Failures Prediction Approach in Agile Software Development	Bulqees Alajaleen
Enhance Mobile application Acceptance Testing Using Face Emotions	Samer Samour
Using AI Techniques and Historical Data Analysis for Enhancing Decision Making.	Tariq Srour

11. Membership of Committees

- Member of Jordan National Qualification Framework committee (Jordanian Universities Level).
- Member of Accreditation committees (Jordanian Universities Level).
- Member of E-learning committee, (At university level), Isra University, 2021-2023
- Member of Higher Committee for ABET Accreditation Faculty of IT, Isra University, 2019-Present.



QFG11/0110 - 3.1E

Curriculum Vitae Form - Procedures of Appointment and Promotion Committee

- Member of Graduate Studies Committee (At university level), Isra University, Faculty of IT, 2013-2018.
- Member of Graduate Studies Committee (At Faculty level), Isra University, Faculty of IT, 2013-2018.
- Member of the Software Engineering Master Program Committee, Isra University, Faculty of IT, 2013-Present.
- Member of the Scientific Research Committee, Isra University, (At University level), 2013-2018.
- Member of Council Committee, Information Technology Faculty, Isra University, 2013-2018.
- Member of E-learning Center Board, Isra University, 2012-2015
- Member of Computer Center Board, Isra University, 2012-2015

12. Professional and Scientific Meetings

1. PCOE Jordan (T&F) Orientation & Content Demonstration - Attendance - 2023-03-1
2. Scientific Research and Technology Transfer - Attendance - 2023-02-16
3. Training Course on Improving the Ranking of Arab Universities in International Rankings - 3 Days - Attendance - 2023-01-24
4. PRIMA-2023 INFODAY and 'STRENGTHENING R&I CAPACITIES IN JORDAN' - Attendance - 2023-01-26
5. THE World University Rankings Masterclass 2024 - Attendance - 2023-01-16
6. Electronic Master's Thesis Supervision System - Speaker - 2022-09-29
7. Empowering Youth and Enhancing Their Participation in Political Life - Attendance - 2022-09-28
8. Planning for Academic Program Quality and Learning Outcomes - Attendance - 2022-09-22
9. Designing and Analyzing Tests According to the Specifications Schedule - Attendance - 2022-09-21
10. Designing Full and Integrated E-Courses - Attendance - 2022-09-20
11. Strategic Planning, Executive Plans, and Performance Indicators Measurement - Attendance - 2022-09-19
12. Times Higher Education Arab University Rankings 2022 - Attendance - 2022-12-05
13. Advanced Scopus - Attendance - 2022-12-20
14. Workshop for University Representatives on the Classification of Arab Universities - Attendance - 2022-11-16
15. Jordanian National Qualifications Framework (JNQF) - 2022
16. Research Academy on Campus-Scopus - Attendance – 2022
17. Planning and Innovation in Higher Education Institutions-2022
18. Strategic Dialogue - The Future of Higher Education and Scientific Research-2021



13. Publications

1. Omar Tarawneh Qotadeh Saber Aljawazneh, Aysh Alhroob, Thamer Alsariera, Mohammad Almuieet, Moath Husni, Ali Ibrahim, "Implementing and Developing Data-Centered Smart Cities: Needs, Applications, and Challenges from a Data Science Perspective", International Journal of Business Information Systems, Inderscience, (12), 2023.
2. Ayat Mashal Almanaseer, Wael Alzyadat, Mohammad Muhairat, Suleyman Al-Showarah, Aysh Alhroob, "A proposed model for eliminating nonfunctional requirements in Agile Methods using natural language processes", International Conference on Emerging Trends in Computing and Engineering Applications (ETCEA), IEEE, 2023
3. Rusul Mumtaz, Venus Samawi, Aysh Alhroob, Wael Alzyadat, Ikhlas Almukahel, "PDIS: A Service Layer for Privacy and Detecting Intrusions in Cloud Computing", 14(2), 2022.
4. Rafid Qahtan Allawi, Ayad Tareq Imam, Aysh Alhroob, Faiz Al-Shrouf, "GANCSA: A novel approach for finding the best path for migration of mobile-agents", Pervasive and Mobile Computing, 83(1), 2022.
5. Ayad Tareq Imam, Basma R Al-Srouf, Aysh Alhroob, "The automation of the detection of large class bad smell by using genetic algorithm and deep learning", Journal of King Saud University - Computer and Information Sciences, 34(6), 2022.
6. Wael Alzyadat, Mohammad Muhairat, Aysh Alhroob, Thamer Rawashdeh, "A Recruitment Big Data Approach to interplay of the Target Drugs", Int. J. Advance Soft Compu. Appl, 14(1), 2022.
7. Bulqees Alajaleen, Aysh Alhroob, "Failure Prediction Approach in Agile Software Development", International Journal of Software Innovation (IJSI), 10(1), 2022.
8. Hassan Al-Tarawneh, Khalid Al-Kaabneh, Aysh Alhroob, Hazem Migdady, Issam Alhadid, "A hybrid heuristic algorithm for solving COVID-19's social distancing at universities campus", Computer Systems Science and Engineering; 41(3):933-944, 2022.
9. Ahmad Althunibat, Wael Alzyadat, Mohammad Muhairat, Aysh Alhroob, Ikhlas H Almukahel, "An Approach to Acquire the Constraints Using Panel Big Data Hybrid Association Rule and Discretization Process for Breast Cancer Prediction", Journal of Healthcare Engineering, 2021 (2021).
10. Wael Alzyadat, Aysh Alhroob, Ikhlas Hassan Almukahel, Mohammad Muhairat, Mohammad Abdallah, Ahmad Althunibat, "Big Data, Classification, Clustering and Generate Rules: An inevitably intertwined for Prediction", International Conference on Information Technology (ICIT), 2021.
11. I. A. AlHadid, and K. Kabbaneh, H. Tarawneh, A. Alhroob, and others " Adaptive Methods to Optimize Web Services Selection and Service Compositions Construction", New Ideas Concerning Science and Technology Publisher: Book Publisher International, 2021.
12. A. Imam, A. Alhroob, W. Alzyadat, "SVM Machine Learning Classifier to Automate the Extraction of SRS Elements", International Journal of Advanced Computer Science and Applications 12(3):2021
13. A Alhroob, W Alzyadat, A Tareq, Imam, M Jaradat, Ghaith, "The Genetic Algorithm and Binary Search Technique in the Program Path Coverage for Improving Software Testing Using Big Data", Journal of Intelligent



QFG11/0110 - 3.1E

Curriculum Vitae Form - Procedures of Appointment and Promotion Committee

- Automation and Soft Computing 26 (4), 725-733, 2020.
14. Aysh Alhroob, Wael Alzyadat, Ikhlas Almukahel, Hassan Altarawneh, "Missing Data Prediction using Correlation Genetic Algorithm and SVM Approach", International Journal of Advanced Computer Science and Applications 11(2), 2020.
 15. Aysh M. Alhroob., Wael Jumah Alzyadat, Ikhlas Hassan Almukahel, Ghaith M. Jaradat, "Adaptive Fuzzy Map Approach for Accruing Velocity of Big Data Relies on Fireflies Algorithm for Decentralized Decision Making", Journal of IEEE Access 8(1), 2020.
 16. Banan Mohammad, Wael Alzyadat, Mohammad Al-Fayoumi, Ruba EL Hawi, Aysh Alhroob, "An Approach to Improve Data Quality from Big Data Aspect by Sensitive Cost and Time", 2020
11th International Conference on Information and Communication Systems (ICICS) IEEE, P: 022-026, 2020.
 17. I AlHadid, K Kaabneh, H Tarawneh, A Alhroob, "Investigation of simulated annealing components to solve the university course timetabling problem", Italian Journal of Pure and Applied Mathematics 44 (1), 291-301, 2020.
 18. Yazan Al-Kasabera, Wael Alzyadat, Aysh Alhroob, Suleyman Al Showarah, Ahmad Thunibat, "An Automated Approach to Validate Requirements Specification", International Journal of Advanced Computer Technology 9(2), 2020.
 19. Areen Al-Hgaish, Wael Alzyadat, Mohammad Al-Fayoumi, Aysh Alhroob, Ahmad Thunibat, "Preserve Quality Medical Drug Data toward Meaningful Data Lake by Cluster", International Journal of Recent Technology and Engineering 8(3), 2019.
 20. Yazan Al-Kasabera, Wael Alzyadat, Aysh Alhroob, Suleyman Al Showarah, Ahmad Thunibat, "An Automated Approach to Validate Requirements Specification", International Journal of Advanced Computer Technology 9(2), 2020.
 21. Areen Al-Hgaish, Wael Alzyadat, Mohammad Al-Fayoumi, Aysh Alhroob, Ahmad Thunibat, "Preserve Quality Medical Drug Data toward Meaningful Data Lake by Cluster", International Journal of Recent Technology and Engineering 8(3), 2019.
 22. AS Suleyman, AL Wael, A Alhroob, H Al-Assam, "User Identification Based on the Dynamic Features Extracted from Handwriting on Touchscreen Devices", International Journal of Interactive Mobile Technologies 14 (11), 126-136, 2020.
 23. Wael ALzyadat, Aysh Alhroob, "Development Planning in the Big Data Era: Design References Architecture", International Conference on Multidisciplinary Research and Innovation ICMRI 2019.
 24. Wael Jumah Alzyadat, Aysh Alhroob, Ikhlas Hassan Almukahel, Rodziah Atan, "Fuzzy Map Approach for Accruing Velocity of Big Data", COMPUSOFT: An International Journal of Advanced Computer Technology 8(4), 2019.
 25. Aysh Alhroob, "Architectural Structures and Viewpoints of Streaming Big Data", International Journal of RTE 8(3), 2019.
 26. Wael Jum'ah Al Zyadat , Faisal Y. Alzyoud, Aysh M. Alhroob, Venus Samawi, "Securitizing Big Data Characteristics Used Tall Array and MapReduce", Journal of Computer Science and Technology 7(4), 2018



QFG11/0110 - 3.1E

Curriculum Vitae Form - Procedures of Appointment and Promotion Committee

27. Aysh Alhroob, Venus W. Samawi, "Privacy in Cloud Computing: An Intelligent Approach", International Conference on High Performance Computing & Simulation (HPCS 2018), Orleans, France, July, 2018.
28. Aysh Al-hroob, Ayad Tareq Imam, Rawan Al-Heisa, "The use of artificial neural networks for extracting actions and actors from requirements document", Information and Software Technology, vol.101, Elsevier, 2018
29. Faiz Al Shrouf, Aysh Alhroob, Khalil Al-Shqeerat, Yaser Al-Kubaisi, "Comparisons and Evaluation Performance Criteria of Software Agents' Platforms for E-Commerce", International Journal of Applied Engineering Research, 13 (7), 2018
30. Nassar, Heba A and Alhroob, Aysh and Imam, Ayad T, "An Algorithmic Approach for Sketching Sequence Diagram (AASSD)". International Conference on Software Engineering and Development (ICSED 2017), ACM. Bangkok, Thailand, August, 2017.
31. Wa'el Jum'ah Al_Zyadat, Faisal Y. Al-Zyoud and Aysh M. Alhroob, "Smooth Handoff Process Cluster Based In Vehicular Ad Hoc Networks. International Journal of Computing Academic Research (IJCAR) 6(3), 2017.
32. Ayad T. Imam, Ayman J. Alnsour, Aysh Al-Hroob, "The Definition of Intelligent Computer Aided Software Engineering (I-CASE) Tools", Journal of Information Engineering and Applications, 5(1)