



Name: Ahmad Abdelhafiz Samhan

Email: Ahmad.Samhan@zu.edu.jo

Major Specialization: Software Engineering

Academic Rank:

Assistant Professor

Professional Objective(s):

To leverage academic, research, and administrative expertise to advance education and research in Software Engineering and to serve the academic and professional community.

Personal Information:

Extension No.:

1541

Mobile No.:

+962 5 3821100

Address:

Amman, Jordan

Nationality:

Jordanian

Marital Status:

Married



Membership:

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| 1) | Member, Software Engineering Department Council - Zarqa University. |
| 2) | Former Mendeley Community Advisor. |
| 3) | Former member, Software Engineering Research Group (SERG) - University of the West of England. |
| 4) | Former member, Systems Engineering research group - INCOSE. |

Qualifications:

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| 1) | Ph.D. in Computer Science (Software Engineering), University of the West of England (UWE), Bristol, United Kingdom, 2020. |
| 2) | M.Sc. in Computer Information Systems, Middle East University for Graduate Studies, Jordan, 2008. |
| 3) | B.Sc. in Computer Information Systems, Zarqa University, Jordan, 2005. |
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Teaching Experiences:

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| 1) | 2020-Present: Assistant Professor, Faculty of Information Technology, Zarqa University, Jordan; currently Head of the Software Engineering Department. |
| 2) | 2012-2014: Faculty Member, College of Information Technology, University of Dammam, Saudi Arabia. |
| 3) | 2010-2012: Faculty Member, Emirates College of Technology, United Arab Emirates. |
| 4) | 2009-2010: Faculty Member, Faculty of Information Technology, Philadelphia University, Jordan. |
| 5) | 2008-2009: Faculty Member, Faculty of Information Technology, Al-Isra University, Jordan. |



Publications:

No.	Title	Journal	Year
1	The Demonstration of Generative AI in the Development of Process Architecture: The Case of Bank Deposits	The International Arab Journal of Information Technology (IAJIT)	2026
2	Utilization and Challenges of Computerized Decision Support Systems in Community Pharmacies: A Cross-Sectional Study	Pharmacy Practice	2026
3	A Review of AI-Assisted Impact Analysis for Software Requirements Change: Challenges and Future Directions	IEEE / 25th International Arab Conference on Information Technology (ACIT)	2024
4	ARivaT: A Tool for Automated Generation of Riva-Based Business Process Architecture Diagrams	IEEE Access	2023
5	Adapting Riva to Support Case Strategy Processes and Enable Modeling a Generalized Business Process Architecture	IEEE / 22nd International Arab Conference on Information Technology (ACIT)	2021
6	Extending the Scope of Configuration Management for the Development and Life Cycle Support of Systems of Systems - An Ontology-Driven Framework Applied to the Enceladus Submarine Exploration Lander	Systems Engineering	2020



Books:

No.	Title	Publisher	Year
1	No authored or translated books are verified in the available record as of the update date.	-	-

Conferences:

No.	Title Mark (-) for attendance only	Organizing Institution	Year
1	Probabilistic Capsule Diffusion Framework for Uncertainty Aware Medical Image Reconstruction	International Conference on Circuit, Power and Computing Technologies (ICCPCT 2026)	2026
2	Real-Time Advanced Heart Monitoring System Using IoT Based Patient Tracking	International Conference on Computing Theory and Wireless Communications (ICCTWC 2026)	2026
3	Secure Systems for the Air Force with 5G Communication: Improving Network Resilience and Real-Time Data Exchange for High-Intensity Operations	International Conference on Data Science, Agents and Artificial Intelligence (ICDSAAI 2026)	2026
4	Smart Robotic Arms Trained with RL for Assembly-Line Automation	IEEE International Conference on AI Engineering and Innovations (AIEI 2026)	2026
5	YOLOv11-Based Deep Learning Framework for Accurate Pancreatic Cancer Detection and Classification from CT Images	IEEE Nexa-Tech International Conference on Advanced Technologies and Innovations (ICATI 2026)	2026
6	Graph Neural Network Based Spatiotemporal Traffic Prediction Framework for Smart Communication Networks	ETAACT 2026	2026
7	Intelligent Cluster Head Selection and Mobile Sink Optimization Using Reinforcement Learning in Wireless Sensor Networks	Intelligent Information Systems and Computing Conference (IISCC 2026)	2026



Conferences:

No.	Title Mark (-) for attendance only	Organizing Institution	Year
8	A Review of AI-Assisted Impact Analysis for Software Requirements Change: Challenges and Future Directions	25th International Arab Conference on Information Technology (ACIT 2024)	2024
9	A Comparative Analysis of Goal-Oriented Requirements Engineering and Model-Based Systems Engineering Frameworks for Managing Requirements of Systems of Systems	25th International Arab Conference on Information Technology (ACIT 2024)	2024
10	An Adapted Ontology for a Generalized Riva-Driven Business Process Architecture	22nd International Arab Conference on Information Technology (ACIT 2021)	2021
11	Adapting Riva to Support Case Strategy Processes and Enable Modeling a Generalized Business Process Architecture	22nd International Arab Conference on Information Technology (ACIT 2021)	2021
12	Business Process Architecture-driven Change Management Applied to a Cancer Care Organization in a Systems of Systems Context	1st International Conference on Cancer Care Informatics (CCI 2018)	2018
13	OntoSoS.CM: A Business Process Architecture Driven and Semantically Enriched Change Management Framework for Systems of Systems Engineering	IEEE International Symposium on Systems Engineering (ISSE 2016)	2016
14	Towards an Ontology for Software Product Quality Attributes	Fourth International Conference on Internet and Web Applications and Services (ICIW 2009)	2009



Supervision of Graduate Studies:

No.	Title Theses or Dissertations	University	Year
1	Evaluating the Effectiveness of Software Requirements Validation Using Generative AI (Co-Supervisor)	Zarqa University	2026
2	Investigating the Software Customization Decision Based on Authority Customization Complexities	Zarqa University	2025
3	Investigating the Impact of Code Smells on the Testability of Java-Based Software	Zarqa University	2025

Community Service Activities:

No.	Activity	Venue of the activity	Year
1	Workshops on International Rankings for Zarqa University Faculty Members	Zarqa University	2025
2	Hosting a Lecture on Innovation and Development in Software Engineering for Students and Interested Participants	Software Engineering Department - Zarqa University	2024
3	Participation in a Workshop Delivered to Participants from the Public Security Directorate	Zarqa University	2023