



Muhyeeddin Kamel Alqaraleh

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**Faculty of Information Technology / Department of Software Engineering**

**Academic Rank: Assistant Professor**

**Membership:**

1	Jordan Engineers Association
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**Qualifications:**

1	PhD (Doctor of Philosophy) –Computer Engineering / Software Engineering – Systems Analyses
2	Master of Science – Computer Engineering
3	Bachelor of Computer Engineering

**Teaching Experience:**

#	From	To	Job description
1	01-10-2024	now	Assistant Professor Department of Software Engineering (SE) Faculty of Information Technology Zarqa University Jordan
2	18-10-2018	30-09-2024	Assistant Professor - Head of Software Engineering Department Department of Software Engineering (SE) Faculty of Information Technology Jadara University Jordan
3	01-07-2018	01-10-2018	Assistant Professor Department of Computer Engineering (SE) Faculty of Engineering Al-Ahliyya Amman University Jordan

**Publications:**

#	Title	Publisher	Year/ Issue (Vol/No)
1.	AI Rx: Revolutionizing Healthcare Through Intelligence, Innovation, and Ethics	Seminars In Medical Writing And Education	<u>Vol.4 No.35 (2025)</u>
2.	AI Rx: Revolutionizing Healthcare Through Intelligence, Innovation, and Ethics	Seminars In Medical Writing And Education	<u>Vol.4 No.35 (2025)</u>
3.	Real-Time UAV Recognition Through Advanced Machine Learning for Enhanced Military Surveillance	Gamification And Augmented Reality Ag Editor	<u>Vol.3 (2025)</u>
4.	From Complexity to Clarity: Improving Microarray Classification with Correlation-Based Feature Selection	Latia	<u>Vol.3 (2025)</u>
5.	Optimizing Resource Discovery in Grid Computing: A Hierarchical and Weighted Approach with Behavioral Modeling	Latia	<u>Vol.3 (2025)</u>
6.	Automated quantification of vesicoureteral reflux using machine learning with advancing diagnostic precision	Data And Metadata	<u>Vol.4 No.460 (2025)</u>
7.	Application of Artificial Intelligence for Diagnosing Tumors in the Female Reproductive System: A Systematic Review	Multidisciplinary (Montevideo) Issn: 3046-4064.	<u>Vol.3 (2025)</u>
8.	Evaluating AI and Machine Learning Models in Breast Cancer Detection: A Review of Convolutional Neural Networks (CNN) and Global Research Trends	Latia	<u>Vol. 3 (2025):</u>
9.	Skywatch: Advanced Machine Learning Techniques for Distinguishing UAVs from Birds in Aerospace Security.	International Journal Of Advanced Computer Science & Applications	<u>Vol.15 No.11 (2024)</u>
10.	Advancing Medical Image Analysis: The Role of Adaptive Optimization Techniques in Enhancing COVID-19 Detection, Lung Infection, and Tumor Segmentation	Latia Issn: 3046-403x	<u>Vol. 2 (2024):</u>
11.	Harnessing Machine Learning for Quantifying Vesicoureteral Reflux: A Promising Approach for Objective Assessment	International Journal Of Online And Biomedical Engineerin	<u>Vol.20 No.11 (2024)</u>
12.	AI in the Sky: Developing Real-Time UAV Recognition Systems to Enhance Military Security	Data And Metadata	<u>Vol.3 No.417 (2024)</u>



13.	Comparative Study of Classification Mechanisms of Machine Learning on Multiple Data Mining Tool Kits	Am J Biomed Sci Res	<u>Vol.1 No.22 (2024)</u>
14.	Comparative Analysis of Advanced Data Mining Methods for Enhancing Medical Diagnosis and Prognosis	Data And Metadata	<u>Vol.3 No.465 (2024)</u>
15.	Advanced Landslide Detection Using Machine Learning and Remote Sensing Data	Data And Metadata	<u>Vol.3 No.419 (2024)</u>
16.	Early Diagnosis of Diabetes: A Comparison of Machine Learning Methods	International Journal Of Online & Biomedical Engineering	<u>Vol.19 No.15 (2023)</u>
17.	Nodexl Tool for Social Network Analysis	Turkish Journal Of Computer And Mathematics Education (Turcomat)	<u>Vol.12 No.14 (2021)</u>
18.	Toward achieving self-resource discovery in distributed systems based on distributed quadtree	Ongoing Jatit & Lls Issn: 1992-8645	<u>Vol. 98. No. 20 (2020)</u>
19.	The Modern Hosting Computing Systems for Small and Medium Businesses	Allied Business Academies	<u>Vol. 25. No. 4 (2019).</u>
20.	Methods, models and technologies of modern information-analytical and control systems: research report (concluding)	DOKLADY BGUIR ISSN: 1729-7648	<u>2016</u>
21.	Dynamic redistribution of service locations	DOKLADY BGUIR ISSN: 1729-7648	<u>2016</u>
22.	Incremental algorithm for solving the dynamic linear assignment problem	DOKLADY BGUIR ISSN: 1729-7648	<u>2015</u>
23.	Fast search of the shortest paths on graphs with predefined solutions	DOKLADY BGUIR ISSN: 1729-7648	<u>2014</u>
24.	Analysis of the stability of the solutions of traveling salesman problems	DOKLADY BGUIR ISSN: 1729-7648	<u>2014</u>
25.	Algorithm for reassessment of the stability of the solutions of traveling salesman	DOKLADY BGUIR ISSN: 1729-7648	<u>2014</u>
26.	Algorithms for rapid calculation of sub-matrices of shortest paths on transport networks	DOKLADY BGUIR ISSN: 1729-7648	<u>2014</u>
27.	Safe distribution of the procedures of dynamic programming method	DOKLADY BGUIR ISSN: 1729-7648	<u>2014</u>
28.	Acceleration of multiple search for shortest paths on graphs	DOKLADY BGUIR ISSN: 1729-7648	<u>2014</u>
29.	Rapid estimation of stability intervals for solving linear assignment problems	DOKLADY BGUIR ISSN: 1729-7648	<u>2013</u>
30.	Implementation of the branch and bounds method for solving traveling salesman problems with	DOKLADY BGUIR ISSN: 1729-7648	<u>2013</u>



	sparse matrices		
31.	Determination of stability intervals for solving linear assignment problems	DOKLADY BGUIR ISSN: 1729-7648	<u>2013</u>
32.	Estimation of stability of travelling salesman problems	DOKLADY BGUIR ISSN: 1729-7648	<u>2013</u>
33.	Quick recalculation of open and closed assignment problems	DOKLADY BGUIR ISSN: 1729-7648	<u>2013</u>
34.	Lower bounds for estimates of solutions of traveling salesman problems	DOKLADY BGUIR ISSN: 1729-7648	<u>2013</u>
35.	Stability of service queuing systems	DOKLADY BGUIR ISSN: 1729-7648	<u>2013</u>
36.	Caching the state of distributed processes by agent systems	DOKLADY BGUIR ISSN: 1729-7648	<u>2013</u>
37.	Rapid estimation of stability intervals for solving traveling salesman problems	DOKLADY BGUIR ISSN: 1729-7648	<u>2013</u>
38.	Counter search of the shortest routes on networks with predetermined solutions	DOKLADY BGUIR ISSN: 1729-7648	<u>2013</u>
39.	Accelerators of inference procedures in competency assessment systems	DOKLADY BGUIR ISSN: 1729-7648	<u>2013</u>
40.	Safe interruption of the procedures of the dynamic programming method	DOKLADY BGUIR ISSN: 1729-7648	<u>2012</u>
41.	Migration of the process of problems solution using dynamic programming method	DOKLADY BGUIR ISSN: 1729-7648	<u>2012</u>
42.	Estimation of stability intervals for solving assignment problems	DOKLADY BGUIR ISSN: 1729-7648	<u>2012</u>
43.	Estimation of stability of open assignments problem solutions	DOKLADY BGUIR ISSN: 1729-7648	<u>2012</u>
44.	Replication of dynamic programming procedures in agent systems	DOKLADY BGUIR ISSN: 1729-7648	<u>2012</u>
45.	Assessment of the need to review the composition of assignments	DOKLADY BGUIR ISSN: 1729-7648	<u>2012</u>

**Books:**

#	Book Title	Publisher	Year
1.	Semantic Image Analysis on Social Networks and Data Processing: Review and Future Directions	IGI Global	2022

**Translated Books:**

#	Book Title	Publisher	Year
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Articles:

#	Article Title	Publisher	Year
1			

Conferences:

#	Paper Title	Organizing Institution	Conference
1	Technological Innovations in Autonomous Vehicles: A Focus on Sensor Fusion and Environmental Perception	IEEE	7th International Conference on Internet Applications, Protocols and Services (NETAPPS2024)
2	Enhancing Diagnostic Precision in Pediatric Urology: Machine Learning Models for Automated Grading of Vesicoureteral Reflux	IEEE	7th International Conference on Internet Applications, Protocols and Services (NETAPPS2024)
3	AI-Driven UAV Distinction: Leveraging Advanced Machine Learning	IEEE	7th International Conference on Internet Applications, Protocols and Services (NETAPPS2024)
4	Comprehensive Assessment of Cybersecurity Measures: Evaluating Incident Response, AI Integration, and Emerging Threats	IEEE	7th International Conference on Internet Applications, Protocols and Services (NETAPPS2024)
5	Automating Web Data Collection: Challenges, Solutions, and Python-Based Strategies for Effective Web Scraping	IEEE	7th International Conference on Internet Applications, Protocols and Services (NETAPPS2024)



.6	Innovative Machine Learning Solutions for Automated Kidney Tumor Detection in CT Imaging Through Comparative Analysis	IEEE	25th International Arab Conference on Information Technology (ACIT'2024)
.7	Advanced Machine Learning Models for Real-Time Drone and Bird Differentiation in Aerial Surveillance Systems	IEEE	25th International Arab Conference on Information Technology (ACIT'2024)
.8	Enhanced Resource Discovery Algorithm for Efficient Grid Computing	IEEE	2024 3rd International Conference on Applied Artificial Intelligence and Computing (ICAAIC)
.9	Enhancing Internet-based Resource Discovery: The Efficacy of Distributed Quadtree Overlay	IEEE	2024 3rd International Conference on Applied Artificial Intelligence and Computing (ICAAIC)
.10	The Two Sides of AI in Cybersecurity: Opportunities and Challenges	IEEE	2023 International Conference on Intelligent Computing and Next Generation Networks (ICNGN)
.11	A Comparative Study of Machine Learning Techniques for Early Prediction of Prostate Cancer	IEEE	2023 IEEE Tenth International Conference on Communications and Networking (ComNet)
.12	A Comparative Study of Machine Learning Techniques for Early Prediction of Diabetes	IEEE	2023 IEEE Tenth International Conference on Communications and Networking (ComNet)
.13	Machine Learning Classification Algorithms for Accurate Breast Cancer Diagnosis	IEEE	2023 3rd International Conference on Emerging Smart Technologies and Applications (eSmarTA)
.14	Pushing the Envelope: Investigating the Potential and Limitations of ChatGPT and Artificial Intelligence in Advancing Computer Science Research	IEEE	2023 3rd International Conference on Emerging Smart Technologies and Applications (eSmarTA)

## Supervision of Theses:



#	Year	University	Thesis Title	Student Name
1				

### Community Service Activities

#	Duartion		Activity
1	2021	British Council	Supporting the Digital Transformation in Jordan's Higher Education Sector
2	2021	association of Arab universities (AARU)	How to Qualify for ABET accreditation including virtual visit Training
3	2021	association of Arab universities (AARU)	Pioneering experiences in accreditation and quality for Arab higher education institutions
4	2020	Vocational Training Corporation	Electronic Commerce Workshop , how to make my own business online
5	2020	INJAZ Corporation	Electronic Commerce Workshop , how to make my own business online
6	2020	Jadara University	abet requirements for engineering and computer science
7	2020	Jadara University	prepare students in the College of Science and Information Technology for the university proficiency exam
8	2020	Zain	Workshop of National CyberSecurity Strategy and CyberSecurity Law
9	2020	accreditation and quality assurance commission for higher education institutions	Jordan National Qualification Framework (JNQF)
10	2020	accreditation and quality assurance commission for higher education institutions	Recognition of Prior Learning (RPL)
11	2020	Ministry of Higher Education and Scientific Research "Petra University" "British Council"	STEM Early Career Academics in Jordanian Universities
12	2019	Al-albayt University	Erasmus +
13	2019	Jadara University	Preparing students in the College of Science and Information Technology for the university proficiency exam
14	2019	Jadara University	The International Conference on Intelligent Computing Systems and Data Analytics Applications (ICSDDA)
15	2019	Princess Sumaya University for Technology PSUT	workshop " Capture the Flag-METACTF "
16	2019	Jadara University	statistical Analysis using SPSS



.17	2019	Jordan Engineers Association	kaizen and lean management skills
.18	2019	Jadara University	Modern Teaching Strategies

### Personal Information

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