



Name: **DR. MOHAMMED N. AL-REFAI**

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Faculty of Information Technology / Department of Software Engineering

Academic Rank: **ASSOCIATE PROFESSOR**

Membership:

1.	Vice Dean of Higher Studies / Zarqa university
2.	A member of the Quality committee at IT faculty/ Zarqa University

Qualifications:

1.	PHD in Computer Science / Parallel and Distributed Systems / Amman Arab University for Graduate Studies Jordan, Amman. (Excellent Grade)
2.	Master in Computer Science /Parallel and Distributed Systems, Al-albays University, Jordan. (Very Good Grade)
3.	BS Computer Science, Mu'ta University, 2004, (Very Good Grade).

Professional Objective(s):

To be part of a dynamic and progressive organization where I can learn, present cutting-edge approaches, add new values and make a fingerprint.



Teaching Experience:

#	From	to	
1	Sep, 2008	2016	Head of SE Department and Head of CS Department and Assistant Professor at Zarqa University, taught several Computer Sciences, Software Engineering MS and BS Courses.
2	Jan, 2016	2024	Head of SE Department and Associate Professor at Zarqa University, taught several Computer Sciences, Software Engineering MS and BS Courses .
3	2024	Till now	Vice Dean of Graduate Studies Faculty in Zarqa University.

Master Students

A. Supervision: Supervised the Following Students:

- [1] Khaled Abdel-Fattah Alkheder, M.Sc, "Leader Election Algorithm in the HoneyComb Torus Networks with the Presence of Link Failure", Zarqa University, 2015-, Graduated.
- [2] Yousef Hafiz Al-Raba'nah, M.Sc, "Leader Election Algorithm in Hive Networks", Zarqa University, 2015-, Graduated.
- [3] Farhan Ali Mohammad Alzu'bi, M.Sc, " Load Balancing technique through Constraint Satisfaction Problem", Zarqa University, 2016, Graduated.
- [4] Asma'a Al-jizawi, M.Sc, "Leader Election Algorithm in 5D Torus Networks", Zarqa University, 2017, Graduated.
- [5] Shareef Husni Ahmad Al Jefout, M.Sc, "Leader Election Algorithm in HYPER-MESH Network", Zarqa University, 2017-, Graduated.
- [6] Mohammad Hamad Aljaidi, M.Sc, "Enhancing Wireless Sensor Networks Performance Using an Efficient Protocol", Zarqa University, 2018-, Graduated.
- [7] Marwa Khader Khalil Taani, M.Sc, " Studying Risks of Hybrid Reengineering on Air-Transportation Systems "A Case Study On Jordanian Civil Aviation Regulatory Commission CARC" ", Zarqa University, 2022, Graduated.
- [8] Yousef Obaid, , M.Sc, " Code Refactoring and Output Remodeling with a Data-Driven Approach on Oracle Business Intelligence Reports," , Zarqa University, 2023, Graduated.



[9] Mohammad quraan, M.Sc, " A New Mechanism of Pages Replacement Strategy in Memory Management with Intelligent Behavior " , Zarqa University, 2021, Graduated.

[10] Iman bawaineh, M.Sc, "Coronavirus (COVID-19) Detection using Ensemble Learning " , Zarqa University, 2021, Graduated.

[11] Alzmaily Abedalrahman, M.Sc, " A New Algorithm to Elect the Leader and Its Deputy in Complete Networks " , Zarqa University, 2021-, Graduated.

[12] Hesham Odat, M.Sc, " An Efficient Strategy for Allocating and Placing Segments in Dynamic Storage " , Zarqa University, 2021-, Graduated.

B. MASTER'S THESIS EXAMINER:

[1] Mohammed Nazzal Elewei, M.Sc, "An Improved Heuristics for Independent Tasks Scheduling in Grid Computing Environment, 2015-, Graduated.

[2] Alaa Hasan Yousef Makableh, "DETECTING PASSWORD THEFT AND INTRUSION ATTEMPTS", Zarqa University, 2016-, Graduated.

[3] Wael Raif Al Khairi, M.Sc, A New Selection Operator Method to Select Parents in Genetics Algorithm " , 2016, Graduated.

[4] Abrar mohammed ,Effect Of Using Continuous Integration (CI) And ContinuousDelivery (CD) Deployment In DevOpsTo Reduce The Gap Between Developer and Operation, Zarqa University, 2022-, Graduated.

[5] Haya Almomani, The Effect of Using The SCRUM Framework in The Design and stockholder reliability, Zarqa University, 2022-, Graduated.

[6] Sara Qudah, The Impact of Modern Code Review on Software Improvements Based on McCall's Quality Model, Zarqa University, 2022-, Graduated.

[7] Batool HmedanAli Zyoud, M.Sc, " The effect of Heavy-Tailed Distribution on the Performance of Non-contiguous Allocation and Job Scheduling Strategiesfor2D Mesh-Connected Multicomputer", Al al-Bayt University, 2016, Graduated.

[8] Ala'a Al-Shoubaki, "Osteoporosis Classification by Using Panorama Images", Zarqa University, 2017, Graduated.

[9] Yaman Albarghouthi ,A Comparative Analysis between AHP and ANP Decision Techniques for Software Requirement Prioritization, Zarqa University, 2023, Graduated.



[10] Hilal Shrif Al-hamid, Proposed Vulnerability Threat Control Model in Continuous Monitoring Phase for DevOps ,Zarqa University, 2024, Graduated.
[11] Ali Samer Saad,The e-government Systems and Its Impact on the Public Jordanians Trust from the Software Quality Factors Perspective ,Zarqa University, 2024, Graduated.
[12] Noor Aldien , The implantation of Artificial Bee Colony for Hyper parameter Tuning in Network Traffic Analysis and Malware Detection using Machine Learning Classifiers. Hashemete university, 2024.
[13] Suzan Hussam, Identify the design aspects for a cancer-care support system in Jordan, Zarqa University, 2024, Graduated.
[14] Tariq Shafiq Abubaker , Cloud Computing Modeling and Simulation for Resource Allocation Performance Enhancement with Space-Shared allocation Policy, Zarqa University, 2024, Graduated.

Articles:

#	Article Title	Publisher	Year
.1	The Main Weaknesses of Using Manhattan Distance for Solving Slide Tile Puzzles	IAES International Journal of Artificial Intelligence (IJ-AI)	2024
.2	Scheduling Algorithms Comparisons and Analysis using Simulation Results	International Journal of Applied Sciences & Development	2024
.3	A Novel Leader Election Algorithm for Honeycomb Mesh Networks	Journal of Theoretical and Applied Information Technology	2019
.4	Data clustering algorithms: A second look	International Journal of Advance Research, Ideas and Innovations in Technology	2018





.5	Toward Secure Vehicular Ad Hoc Networks an Overview and Comparative Study	Journal of Computer and Communications	2016
.6	Empirical study prove that breadth-first search is more effective memory usage than depth-first search in frontier boundary cyclic graph.	IAES International Journal of Artificial Intelligence (IJ-AI)	2021
.7	A Ring Based Leader Election Algorithm for Hive Networks	Journal of Theoretical and Applied Information Technology	2202
.8	A collaborative cybersecurity framework for higher education	Information & Computer Security	2202
.9	Using deep learning methods in detecting the critical success factors on the implementation of cloud ERP	Int. J. Business Information Systems	2023
.10	The Effect of Context Switching on Multilevel Feedback Queue (MLFQ) Scheduling Algorithms Performance and CPU Utilization	WSEAS Transactions on Computer Research	2024
.11	Investigating the Impact of Statistical Measures on Round Robin Quantum Length Selection in Scheduling Algorithms	WSEAS Transactions on Computer Research	2024
.12	The effect of technological context on smart home adoption in Jordan	Indonesian Journal of Electrical Engineering and Computer Science	2024
.13	Evolution Characteristics of ERP Systems that Distinct from Traditional SDLCs,	International Journal of Advanced Research in Computer and Communication Engineering (IJARCCE)	2016.
.14	Dynamic Solution for Leader Failure in the Honeycomb Torus Network.	Journal of Engineering Technology.	2017
.15	Software Development by Merging Prototyping and Agile Approaches,	International Journals of Advanced Research in Computer Science and Software Engineering	2017
.16	Leader Election Algorithm in the Honeycomb Torus Networks,	Journal of Engineering Technology	2016



.17	Dynamic Leader Election Algorithm in 2DTorus Network with Multi Links,	International Journal of Computer Science Trends and Technology (IJCST)	2014
.18	Leader Election Algorithms in Torus and Hypercube Networks Comparisons and Survey,	International Journal of Computer Science and Mobile Computing	2015
.19	Dynamic Solutions for Leader Failure in 3D Torus Networks,	World of Computer Science and Information Technology Journal (WCSIT)	2014
.20	Autonomic Healing for Service Specific Overlay Networks,	International Journal of Information Technology and Web Engineering	2012
.21	Solutions for Stoning the Devil in Pilgrimage using Simulation,	International Journal of Computer Applications (IJCA),	2015
.22	Leader Election Algorithm in 3D Torus Networks with the Presence of One Link Failure,	World of Computer Science and Information Technology Journal (WCSIT)	2012
.23	Autonomic Multimedia Delivery Services Self-Configuration,	Transactions on Systems, Signals & Devices	2011
.24	Applied Study on E-Marketing Websites with Designing Home Delivery Service Website	International Journal of Advanced Research in Computer and Communication Engineering	2015
.25	Leader Election Algorithm in 2D Torus with the Presence of One Link Failure	The International Arab Journal of Information Technology,	2010
.26	The Evolution Characteristics of ERP Systems that Distinct from Traditional SDLCs,	International Journal on Engineering Applications (IREA)	2015
.27	Leader Election Algorithm in Hypercubes with the Presence of One Link Failure,	The 2006 International Conference on Parallel and Distributed Processing Techniques and Applications	2006

Conferences:

#	Paper Title	Organizing Institution	Conference
.1	A Stable Fault tolerance Algorithm for Leader Crash in Distributed Honeycomb Networks	2021 22nd International Arab Conference on Information Technology (ACIT)	2021



.2	Leader Election Algorithm In Hypercube network When The Id Number Is Not Distinguished,.	The 2nd International Conference on Information & Communication Systems, May 22-24, 2011, Irbid, Jordan	2011
.3	Dynamic Solution For Leader Failure In Hypercube Network, ISTECS-2011	International Science & Technology Conference, Istanbul University, Turkey	2011
.4	New Leader Election Algorithm in Hypercubes with Minimum time steps and number of messages	European University of Lefke, 4th FAE International Symposium	2006
.5	The Use of SCRUM Methodology for Final Year Undergraduate Project During Corona Pandemic	2022 13th International Conference on Information and Communication Systems (ICICS)	2022
.6	Database as a Service (DBaaS) Challenges and Solutions	22nd International Arab Conference on Information Technology (ACIT)	2021
.7	Building Arabic Automatic Thesaurus Using Co-occurrence Technique	Proceedings of International Conference on Communication, Media, Technology and Design	2013
.8	Studying Risks of Hybrid Reengineering on Air-Transportation Systems Management 'A Case Study on Jordanian Civil Aviation Regulatory Commission (CARC)'	<i>24th International Arab Conference on Information Technology, ACIT 2023,</i>	2023



.9	Internet of robotic things: Current technologies and applications	22nd International Arab Conference on Information Technology, ACIT 2021,	2021
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Books:

#	book Title	Organizing Institution	year
.1	(Metaheuristic Algorithms-based Feature Selection Approach for Intrusion Detection: Principles, Algorithms, and Practices) Book Chapter in (Machine Learning for Computer and Cyber Security (pp.184-208))	Taylor & Francic	2019
.2	Botnet Behavior and Detection Techniques: A Review (book chapter in Computer and Cyber Security book	Auerbach Publications	2019

Personal Information

Name	:	Mohammed Nayef Alrefai		
Place and Date of Birth	:	ALAAL/IRBID – 12/12/1969		
Nationality	:	Jordanian		
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