



**GHASSAN SAMARA**

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Computer Science

**Academic Rank: Associate Professor**

**Membership:**

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**Qualifications:**

1	Ph.D (Doctor of Philosophy) – Computer Networks
2	Master of Computer Science.
3	Bachelor of Computer Science.



## Teaching Experience:

#	From	to	Job description
1	01/03/2023	Now	Vice Dean of Faculty of Information Technology Associate Professor Zarqa University Jordan
2	02-09-2019	28-2-2023	Head of Computer Science Department Associate Professor Department of Computer Science (CS) Faculty of Information Technology Zarqa University Jordan
3	002-9-2015	01-09-2019	Head of Internet Technology Department Assistant Professor Department of Internet Technology Faculty of Information Technology Zarqa University Jordan
4	02-9-2012	01-09-2015	Assistant Professor Department of Computer Science (CS) Faculty of Information Technology Zarqa University Jordan

## Publications:

#	Title	Publisher	Year/ Issue (Vol/No)
.1	Machine Learning-Based Detection of Smartphone Malware: Challenges and Solutions	<i>Mesopotamian journal of Cybersecurity</i>	2023
.2	An Intelligent Decision Support System Based on Multi Agent Systems for Business Classification Problem	<i>Sustainability</i>	2023
.3	Arabic Sentiment Analysis for ChatGPT Using Machine Learning Classification Algorithms: A Hyperparameter Optimization Technique	<i>ACM Transactions on Asian and Low-Resource Language Information Processing</i>	2023
.4	Potential of Machine Learning for Predicting Sleep Disorders: A Comprehensive Analysis of Regression and Classification Models	<i>Diagnostics</i>	2023
.5	Multi-Label Classification Based on Associations	<i>Applied Sciences</i>	2023
.6	The Recognition of Holy Quran Reciters Using the MFCCs Technique and Deep Learning	<i>Advances in Multimedia</i>	2023
.7	Using Security Centre in Indoor Internet of Things	<i>International Journal of Quality</i>	2022
.8	IoT Forensic Frameworks (DFIF, IoTDOTS, FSAIoT): A Comprehensive Study	<i>International Journal of Advances in Soft Computing</i>	2022
.9	Energy Balancing Algorithm For Wireless Sensor Network.	<i>Journal Of Theoretical And Applied Information Technology</i>	2022
.10	Lane prediction optimization in VANET.	<i>Egyptian Informatics Journal</i>	2021
.11	An Intelligent Vice Cluster Head Election Protocol in WSN	<i>International Journal of Advances in Soft Computing</i>	2021



.12	Early detection of skin cancer using deep learning approach.	<i>Elementary Education Online</i>	2021
.13	Intelligent reputation system for safety messages in VANET	<i>IAES International Journal of Artificial Intelligence</i>	2020
.14	Optimal Number of Cluster Heads in Wireless Sensors Networks Based on LEACH	<i>International Journal of Advanced Trends in Computer Science and Engineering</i>	2020
.15	Energy-Efficiency Routing algorithms in Wireless Sensor Networks: a Survey	<i>International Journal Of Scientific &amp; Technology Research</i>	2019
.16	An Improved CF-MAC Protocol for VANET	<i>the International Journal of Electrical and Computer Engineering</i>	2019
.17	Efficient Energy, Cost Reduction, and QoS based routing protocol for Wireless Sensor Networks	<i>the International Journal of Electrical and Computer Engineering</i>	2019
.18	Aware-Routing Protocol using Best First Search Algorithm in Wireless Sensor	<i>The International Arab Journal of Information Technology</i>	2018
.19	An Efficient Collision Free Protocol for VANET	<i>International Journal of Computer Applications</i>	2018
.20	An Intelligent Routing Protocol in VANET	<i>the International Journal of Ad Hoc and Ubiquitous Computing</i>	2018
.21	Low Cost ZigBee Sensor Network Architecture for Indoor Air Quality Monitoring	<i>International Journal of Computer Science and Information Security</i>	2017



.22	A Practical Approach for Detecting Logical Error in Object Oriented Environment,	<i>World of Computer Science and Information Technology Journal</i>	2017
.23	Mobile Station-Controlled Handover Scheme in Mobile WiMAX: Case Study	<i>International Journal of Computer Applications</i>	2015
.24	Coordinator Location Effects in AODV Routing Protocol in ZigBee Mesh Network	<i>International Journal of Computer Applications</i>	2015
.25	Congestion Control Approach based on Effective Random Early Detection and Fuzzy Logic	<i>MAGNT Research Report</i>	2015
.26	Mathematical Modeling and Analysis of ZigBee Node Battery Characteristics and Operation	<i>MAGNT Research Report</i>	2015
.27	The Development of Wireless Communication Systems from Zero Generation to Fifth Generation - A survey	<i>International Journal of Sciences &amp; Applied Research</i>	2015
.28	Improved Routing Performance in Sensor Networks Using Virtual Coordinates (Survey)	<i>International Journal of Sciences &amp; Applied Research</i>	2015
.29	TCP and UDP QoS Characteristics on Multiple Mobile Wireless LAN	<i>International Journal of Sciences &amp; Applied Research</i>	2015
.30	Security Issues in Vehicular Ad Hoc Networks (VANET): a survey	<i>International Journal of Sciences &amp; Applied Research</i>	2015
.31	Deploying an Efficient Safety System for VANET	<i>The World of Computer Science and Information Technology Journal</i>	2015
.32	New Strategy for Cache Replacement in Manets	<i>Global Journal of Advanced Research</i>	2015



.33	Intelligent Emergency Message Broadcasting in VANET Using PSO	<i>The World of Computer Science and Information Technology Journal</i>	2014
.34	Performance Analysis of Dynamic Source Routing Protocol	<i>Journal of Emerging Trends in Computing and Information Sciences</i>	2014
.35	Power Control Protocols in VANET	<i>European Journal of Scientific Research</i>	2013
.36	Dynamic Safety Message Power Control in VANET Using PSO	<i>World of Computer Science and Information Technology Journal</i>	2013
.37	A Prototype Navigation System for Guiding Blind People Indoors using NXT Mindstorms	<i>International Journal of Online Engineering</i>	2013
.38	Survey on security challenges in VANET	<i>International Journal of Computer Science and Network</i>	2013
.39	An Indoor Fingerprinting Localization Approach for ZigBee Wireless Sensor Networks	<i>European Journal of Scientific Research</i>	2013
.40	Certificate Revocation Management in VANET	<i>International Journal of Cyber-Security and Digital Forensics</i>	2012
.41	Message Broadcasting Protocols in VANET	<i>Information Technology Journal</i>	2012
.42	Increase Emergency Message Reception in VANET	<i>Journal of Applied Sciences</i>	2011
.43	Increasing Network Visibility Using Coded Repetition Beacon Piggybacking	<i>World Applied Sciences Journal</i>	2010
.44	Safety Message Power Transmission Control for VANET	<i>Journal of Computer Science</i>	2010



.45	A scheme in dense VANETs broadcast	<i>Journal of Applied Sciences</i>	2010
.46	Design of Simple and Efficient Revocation List Distribution in Urban areas for VANETs	<i>International Journal of Computer Science and Information Security</i>	2010

### Books:

#	Book Title	Publisher	Year
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### Translated Books:

#	Book Title	Publisher	Year
.1			

### Articles:

#	Article Title	Publisher	Year
.1			

## Conferences:

#	Paper Title	Organizing Institution	Conference
.1	Alarm System at street junctions (ASSJ) to avoid accidents Using VANET	IEEE	2021 Global Congress on Electrical Engineering (GC-ElecEng)
.2	General Countermeasures of Anti-Forensics Categories	IEEE	2021 Global Congress on Electrical Engineering (GC-ElecEng)
.3	Internet of Things Protection and Encryption: A Survey	IEEE	2021 22nd International Arab Conference on Information Technology (ACIT)
.4	Internet of Robotic Things: Current Technologies and Applications	IEEE	2021 22nd International Arab Conference on Information Technology (ACIT)
.5	Scheduling UET-UCT DAGs of Depth Two on Two Processors	IEEE	2021 22nd International Arab Conference on Information Technology (ACIT)
.6	Encryption for End-User Privacy: A Cyber-Secure Smart Energy Management System	IEEE	2021 22nd International Arab Conference on Information Technology (ACIT)





<b>.7</b>	Improving VANET's Performance by Incorporated Fog-Cloud Layer (FCL).	IEEE	<i>2021 22nd International Arab Conference on Information Technology (ACIT)</i>
<b>.8</b>	Wireless Sensor Network MAC Energy-efficiency Protocols: A Survey	IEEE	<i>2020 21st International Arab Conference on Information Technology (ACIT)</i>
<b>.9</b>	Aware-Routing Protocol using Best First Search Algorithm in Wireless Sensor Networks	IEEE	<i>The 18th International Arab Conference on Information Technology (ACIT'2017)</i>
<b>.10</b>	Wireless Sensor Networks Hierarchical Protocols	IEEE	<i>The 8th International Conference on Information Technology (ICIT 2017).</i>
<b>.11</b>	Applying ontological modeling on Quranic" nature" domain	IEEE	<i>2016 7th International Conference on Information and Communication Systems (ICICS)</i>
<b>.12</b>	Application Layer Protocols to Protect Electronic Mail from Security Threads	IEEE	<i>Proceeding of The 7th International Conference on Information Technology, ICIT 2015</i>



<b>.13</b>	Impact of Node Clustering on Power Consumption in WSN, A Comparative Study	IEEE	<i>Proceeding of The 7th International Conference on Information Technology, ICIT 2015</i>
<b>.14</b>	A New Security Mechanism for Vehicular Communication Networks	IEEE	<i>Proceeding of the International Conference on Cyber Security, CyberWarfare and Digital Forensic (CyberSec2012)</i>
<b>.15</b>	Security Analysis of Vehicular Ad Hoc Networks (VANET)	IEEE	<i>Proceeding of the 2nd International Conference on Network Applications (NETAPPS'10)</i>
<b>.16</b>	Security Issues and Challenges of Vehicular Ad Hoc Network	IEEE	<i>Proceeding of 4th International Conference on New Trends in Information Science and Service Science (NISS 2010)</i>
<b>.17</b>	Efficient Certificate Management in VANET	IEEE	<i>Proceeding of the 2nd International Conference on Future Computer and Communication (ICFCC 2010),</i>



## Supervision of Thesis:

#	Year	University	Thesis Title	Student Name
.1	2016	Zarqa University	<a href="#">Congestion Control Approach based on Effective Random Early Detection and Fuzzy Logic.</a>	Maimuna Khatary,
.2	2018	Zarqa University	<a href="#">Enhancing Wireless Sensor Networks Performance Using Intelligent Routing.</a>	Mohammad Khawaldeh
.3	2017	Zarqa University	<a href="#">An Intelligent Energy Efficiency Clustering LEACH Algorithm</a>	Munier Okor
.4	2016	Zarqa University	<a href="#">Power Sensitive Routing Algorithm for ZigBee Wireless Networks.</a>	Abla Suliman
.5	2016	Zarqa University	<a href="#">Handover Enhancement for Mobile WiMAX Based on Mobile Movement and Base Stations Communications.</a>	Emran Saleh
.6	2021	Zarqa University	<a href="#">An Intelligent Vice Cluster Head Election Algorithm and Clustering System for Optimizing Network Life and Improving Wireless Sensor</a>	Yahya Zayed,



			<a href="#">Network Performance</a>	
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**Community Service Activities**

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**Personal Information**

Name	Ghassan Samara	
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Nationality	Jordanian	
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