



Mohammad Hamad Abdel Aziz Aljaidi

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Head of Cybersecurity Department / IT Faculty

Academic Rank: Assistant Professor

## Membership:

1	IEEE member
2	Member of Cyber Security team, Northumbria University at Newcastle
3	Member of the Cyber Security and Network Systems (CyberNets) research group at Northumbria University at Newcastle
4	Member of IEEE Vehicular Technology Society
5	Chairman of the Social Committee (IT Faculty – Zarqa University)
6	Chairman of the laboratories Committee (IT Faculty – Zarqa University)

## Qualifications:

1	Doctor of Philosophy (Ph.D.) in Computer Science & Artificial Intelligence (AI) at Northumbria University, UK (With a general grade: Excellent)
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2	Master of Science (M.Sc.) in Computer Science at Zarqa University, Jordan (with a general grade: Excellent 93.5%) – First in my class (Honours with Distinction)
3	Bachelor of Science (B.Sc.) in Computer Science at Zarqa University, Jordan (with a general grade: Excellent 96.8%) – First in my class (Honours with Distinction)
4	Diploma of Information Technology at Prince Faisal Technical College, Jordan (with a general grade: Excellent) – First in my class (Honours with Distinction)
5	Diploma of Cyber Security at Keesler AFB, Mississippi, USA (with a general grade: Excellent) – First in my class
6	Diploma of Advanced English Language Training, Texas, USA (with a general grade: Excellent) – First in my class

## Awards:

1	Best paper Presentation in IECON 2020 The 46th Annual Conference of the IEEE Industrial Electronics Society.
2	Best paper awards in Engineering International Conference on Electrical, Energy, and Artificial Intelligence (EICEEAI)
3	Top of class (First in my class) - BSc
4	Top of class (First in my class) - MSc

## Experience:

#	From	to	Job description
1	30 Sep 2024	Current	Head of Cybersecurity Department – Zarqa University
2	18 Sep 2022	30 Sep 2024	Assistant Professor Department of Computer Science (CS) Faculty of Information Technology Zarqa University Jordan
3	15 Jan 2020	10 Sep 2023	Lecturer Department of Computer and Information Sciences (CIS) Faculty of Engineering and Environment University of Northumbria at Newcastle United Kingdom
4	30 Aug 2012	15 Aug 2018	System and Network Administrator, Information Technology Directorate, Royal Jordanian Air force Jordan
5	01 Feb 2010	30 Aug 2012	IT Section Chief



			Jordan Aeronautical Systems Company (JAC) Amman Airport Jordan
6	01 Aug 2002	30 Jan 2010	IT Tech: <ul style="list-style-type: none"> <li>• Hardware and Software maintenance.</li> <li>• Network administration and Configuration.</li> <li>• Windows Server Administration.</li> <li>• Data Center and Critical Facilities Management.</li> </ul> Information Technology Directorate Royal Jordanian Air Force Jordan

## International Activities:

1	Chairing sessions (in-person) in IEEE 95th Vehicular Technology Conference:(VTC2022-Spring), Finland
2	Artificial Intelligence Track Chair in Engineering International Conference on Electrical, Energy, and Artificial Intelligence Conference

## Patents:

#	Patent Title	Patent Office	Year
1	A novel system for connecting dead channels in wireless communication systems based on a deterministic protocol	German Patent Office (DE)	2023
2	Secure hardware-based authentication and intrusion detection in cybersecurity systems	German Patent Office (DE)	2024
3	Antenna with stable impedance for IoT devices	Japan Patent Office (JP)	2024
4	Implantable Antenna for IoT Based Health Monitoring Devices	Japan Patent Office (JP)	2024
5	Satellite/GPS-Based Stick for Blind Patients	Japan Patent Office (JP)	2024
6	Circular polarized on-body repeater antenna for IoT based wristband devices	Japan Patent Office (JP)	2024
7	Two-Element MIMO Implantable Antenna for IoT based Health Monitoring Devices	Japan Patent Office (JP)	2024

## Publications (Journals):

#	Title	Publisher	Year/Issue (Vol/No)
1	A hybrid slime mold enhanced convergent particle swarm optimizer for parameter estimation of proton exchange membrane fuel cell	Scientific Reports	2025, 15 (1)
2	MORIME: A multi-objective RIME optimization framework for efficient truss design	Results in Engineering	2025, 25
3	MaOSSA: A New High-Efficiency Many-Objective Salp Swarm Algorithm with Information Feedback Mechanism for Industrial Engineering Problems	Results in Engineering	2025/2/24
4	A two stage differential evolution algorithm for parameter estimation of proton exchange membrane fuel cell	Scientific Reports	2025, 15 (1)
5	VRDeepSafety: A Scalable VR Simulation Platform with V2X Communication for Enhanced Accident Prediction in Autonomous Vehicles	World Electric Vehicle Journal	2025, 16 (2)
6	Optimized Novel Text Embedding Approach for Fake News Detection on Twitter X: Integrating Social Context, Temporal Dynamics, and Enhanced Interpretability	International Journal of Computational Intelligence Systems	2025, 18 (1)
7	Arabic fake news detection using hybrid contextual features	International Journal of Electrical & Computer Engineering	2025, 15 (1)
8	EEG-Based ADHD Classification Using Autoencoder Feature Extraction and ResNet with Double Augmented Attention Mechanism	Brain Sciences	2025, 15 (1)



9	Optimizing FACTS Device Placement Using the Fata Morgana Algorithm: A Cost and Power Loss Minimization Approach in Uncertain Load Scenario-Based Systems	International Journal of Computational Intelligence Systems	2025, 18 (1)
10	A quasi affine transformation evolution algorithm with evolution matrix selection operation for parameter estimation of proton exchange membrane fuel cells	Scientific Reports	2025, 15 (1)
11	Adaptive historical population-based differential evolution for PEM fuel cell parameter estimation	Ionics	2025, 31 (1)
12	A Robust Machine Learning Model for Detecting XSS Attacks on IoT over 5G Networks	Future Internet	2024, 16 (12)
13	Optimizing solar cell models: a multi-objective parameter estimation algorithm for improved photovoltaic system performance	Physica Scripta	2024, 100 (1)
14	Design analysis and performance enhancement of a 2-element MIMO skin-implantable antenna for IoT-based health monitoring devices	PloS one	2024, 19 (12)
15	Comparative analysis of impact of classification algorithms on security and performance bug reports	Journal of Intelligent Systems	2024, 33 (1)
16	Determination of yearly energy savings by CVR in combination with photovoltaic inverter control functions in distribution network	Energy Reports	2024, 12
17	Optimizing Dielectric Rod Antenna Performance with Spoof Surface Plasmon Polariton-Based Feeding Method	Sensors	2024, 24 (23)



18	Enhancing IoT device security: CNN-SVM hybrid approach for real-time detection of DoS and DDoS attacks	Journal of Intelligent Systems	2024, 33 (1)
19	Enhanced Anomaly Detection in Ethereum: Unveiling and Classifying Threats with Machine Learning	IEEE Access	2024/11/20
20	Optimizing proton exchange membrane fuel cell parameter identification using enhanced hummingbird algorithm	International Journal of Hydrogen Energy	2024, 89
21	Optimizing Electric Vehicle Charging Infrastructure through Machine Learning: A Study of Charging Patterns and Energy Consumption	International Journal of Interactive Mobile Technologies	2024, 18 (21)
22	Brain tumor classification utilizing pixel distribution and spatial dependencies higher-order statistical measurements through explainable ML models	Scientific Reports	2024, 14 (1)
23	A particle swarm optimizer-based optimization approach for locating electric vehicles charging stations in smart cities	International Journal of Hydrogen Energy	2024, 87
24	An intelligent approach to automated OS log analysis for enhanced security	Information	2024/10/16
25	Green Communication in IoT for Enabling Next-Generation Wireless Systems	Computers	2024, 13 (10)
26	A robust multi-objective optimization algorithm for accurate parameter estimation for solar cell models	Soft Computing	2024, 28 (19)
27	Optimizing Cyber Threat Detection in IoT: A Study of Artificial Bee Colony (ABC)-Based Hyperparameter Tuning for Machine Learning	Technologies	2024, 12 (10)



28	Application of hybrid chaotic particle swarm optimization and slime mould algorithm to optimally estimate the parameter of fuel cell and solar PV system	International Journal of Hydrogen Energy	2024, 83
29	Optimizing Performance in Wireless Sensor Networks through a Multi-Objective Rendezvous Points Selection Algorithm.	International Journal of Interactive Mobile Technologies	2024, 18 (18)
30	A Review on Millimeter-Wave Hybrid Beamforming for Wireless Intelligent Transport Systems	Future Internet	2024, 16 (9)
31	Enhancing Reliability and Stability of BLE Mesh Networks: A Multipath Optimized AODV Approach	Sensors	2024, 24 (18)
32	A Novel Charging Management and Security Framework for the Electric Vehicle (EV) Ecosystem	World Electric Vehicle Journal	2024, 15 (9)
33	Development of a Prototype Global Positioning System Based Stick for Blind Patients.	International Journal of Online & Biomedical Engineering	2024, 20 (8)
34	Advancing XSS detection in IoT over 5g: a cutting-edge artificial neural network approach	IoT	2024, 5 (3)
35	Optimized digital watermarking: Harnessing the synergies of Schur matrix factorization, DCT, and DWT for superior image ownership proofing	Multimedia Tools and Applications	2024/7/17
36	Cyber security analysis of connected vehicles	IET Intelligent Transport Systems	2024, 18 (7)
37	EV charging management and security for multi-charging stations environment	IEEE Open Journal of Vehicular Technology	2024/6/24



38	QoE-based assignment of EVs to charging stations in metropolitan environments	IEEE Transactions on Intelligent Vehicles	2024/6/11
39	A Novel Model for Vehicular Delay Tolerant Networks Using Deterministic Bundle Relaying Scheme	IEEE Access	2024/5/13
40	A novel design of broadband circularly polarized rectenna with enhanced gain for energy harvesting	IEEE Access	2024/5/6
41	MoBShield: A Novel XML Approach for Securing Mobile Banking.	Computers, Materials & Continua	2024, 79 (2)
42	AFARM: Anxiety-Free Autonomous Routing Model for Electric Vehicles with Dynamic Route Preferences.	International Journal of Interactive Mobile Technologies	2024, 18 (8)
43	Arabic sentiment analysis for ChatGPT using machine learning classification algorithms: a hyperparameter optimization technique	ACM Transactions on Asian and Low-Resource Language Information Processing	2024, 23 (3)
44	B-SAFE: Blockchain-enabled security architecture for connected vehicle fog environment	Sensors	2024, 24 (5)
45	Arabic sentiment analysis of Monkeypox using deep neural network and optimized hyperparameters of machine learning algorithms	Social Network Analysis and Mining	2024, 14 (1)
46	Securing mobile edge computing using hybrid deep learning method	Computers	2024, 13 (1)
47	Recent Trends in Reconfigurable Antennas for Modern Wireless Communication: A Comprehensive Review	International Journal of Antennas and Propagation	2024, 2024 (1)
48	Recent trends in compact planar antennas at 5G sub-6 GHz and mmwave frequency bands	Prog. Electromagn. Res. C	2024, 143





	for automotive wireless applications: A review		
49	Potential of machine learning for predicting sleep disorders: a comprehensive analysis of regression and classification models	Diagnostics	2023, 14 (1)
50	PLUG: A city-friendly navigation model for electric vehicles with power load balancing upon the grid	World Electric Vehicle Journal	2023, 14 (12)
51	Maximizing test coverage for security threats using optimal test data generation	Applied Sciences	2024, 13 (14)
52	Diagnosing diabetes mellitus using machine learning techniques	International Journal of Data and Network Science	2024, 8 (1)
53	Vehicular Network Intrusion Detection Using a Cascaded Deep Learning Approach with Multi-Variant Metaheuristic	Sensors	2023, 23 (21), 8772
54	ABLA: Application-Based Load-Balanced Approach for Adaptive Mapping of Datacenter Networks	Electronics	2023, 12 (17), 3689
55	Improving Recommender Systems by a Further Factorization of the Factor Matrices	IEEE ACCESS	2023, 3308489
56	LiNEV: Visible Light Networking for Connected Vehicles	Photonics	2023, 10 (8), 925
57	Cybersecurity Risk Analysis of Electric Vehicles Charging Stations	Sensors	2023, 23 (15), 6716
58	An Intelligent Decision Support System Based on Multi Agent Systems for Business Classification Problem	Sustainability	2023, 15 (14)
59	Towards a Smart Environment: Optimization of WLAN Technologies to Enable Concurrent Smart Services	Sensors	2023, 23 (5), 2432

60	Multi-Label Classification Based on Associations	Applied Sciences	2023, 13 (8), 5081
61	Data Collection in WSNs using a Probability-Based Rendezvous Points Selection Algorithm	International Journal of Emerging Technology and Advanced Engineering	2023, 36, 37
62	Electric Vehicle Charging Modes, Technologies and Applications of Smart Charging	Energies	2022, 15 (24), 9471
63	Efficient route planning using temporal reliance of link quality for highway IoV traffic environment	Electronics	2022, 12 (1), 130
64	A Novel Approach to Improve the Adaptive-Data-Rate Scheme for IoT LoRaWAN	Electronics	2022, 11 (21), 3521
65	Machine Learning Failure-Aware Scheme for Profit Maximization in the Cloud Market	Future Internet	2022, 15 (1), 1
66	Efficient energy, cost reduction, and QoS based routing protocol for wireless sensor networks	International Journal of Electrical and Computer Engineering	2019, Vol (9)
67	Aware-routing protocol using best first search algorithm in wireless sensor networks	International Arab Journal of Information Technology	2018, Issue 3A / Vol (15)

## Publications (International Conferences):

#	Title	Publisher	Year
1	Integrated Approaches to Steganography: Embedding Static Information Across Audio, Visual, and Textual Formats	2024 International Jordanian Cybersecurity Conference (IJCC)	2024
2	Dynamic Exit Selection and Counting Area Adjustment for Efficient Crowd Evacuation in Asymmetrical Layouts	2024 25th International Arab Conference on Information Technology (ACIT)	2024



3	Hybrid Diabetes Mellitus Prediction Modeling and Analysis Using Machine Learning Techniques	2024 25th International Arab Conference on Information Technology (ACIT)	2024
4	Explainable AI for Epileptic Seizure Prediction: A SHAPE and LIME Approach	2024 25th International Arab Conference on Information Technology (ACIT)	2024
5	A Comprehensive Review of VANET Attacks: Predictive Models, Vulnerability Management, and Defense Selection	2024 25th International Arab Conference on Information Technology (ACIT)	2024
6	Proactive Insider Threat Detection Using Facial and Behavioral Biometrics	2024 25th International Arab Conference on Information Technology (ACIT)	2024
7	COVID-19 Infection Detection in X-Ray Images Using Enhanced Image Segmentation and Machine Learning Models	2024 25th International Arab Conference on Information Technology (ACIT)	2024
8	Multi Label Classification Algorithm Based on Conditional Local Correlations among Labels and Ensemble Learning	2024 25th International Arab Conference on Information Technology (ACIT)	2024
9	Deep Learning Approaches for Malware Detection in the Industrial Internet of Things: A Comprehensive Analysis	2024 25th International Arab Conference on Information Technology (ACIT)	2024
10	Design and Simulation of a Network Infrastructure for a Multi-Branch Organization Using Cisco Packet Tracer	2024 25th International Arab Conference on Information Technology (ACIT)	2024
11	Harnessing ML and NLP for Enhanced Cybersecurity: A Comprehensive Approach for Phishing Email Detection	2024 25th International Arab Conference on Information Technology (ACIT)	2024
12	Machine Learning as the Shield: Mitigating ARP Poisoning Attacks in Software Defined Networks	2024 25th International Arab Conference on Information Technology (ACIT)	2024



13	Continuous Wavelet Transform Spectral Image Based Epileptic Episode Classification	2024 25th International Arab Conference on Information Technology (ACIT)	2024
14	Efficient Road Status Monitoring in Vehicular Ad-Hoc Networks: An Optimization Framework	2024 25th International Arab Conference on Information Technology (ACIT)	2024
15	Transformer-based text classification on unified bangla multi-class emotion corpus	2024 25th International Arab Conference on Information Technology (ACIT)	2024
16	Future IoT sensing: Silvaco simulation of graphene-gated pin photosensor on SOI for blue and ultraviolet light	2024 25th International Arab Conference on Information Technology (ACIT)	2024
17	Securing Internet of Vehicles IoV Communications: A Biometric and Hash-Key Derivation Function HKDF-Based Approach	2024 25th International Arab Conference on Information Technology (ACIT)	2024
18	Optoelectronic characteristics of bilayer graphene/ZnO nanowires heterojunction UV photodetector for IoT applications: A simulation study	2024 25th International Arab Conference on Information Technology (ACIT)	2024
19	Enhancing Convergence Efficiency in Federated Learning Models	2024 25th International Arab Conference on Information Technology (ACIT)	2024
20	Unveiling Deception: Different Strategies for Combatting Arabic Fake News	2024 25th International Arab Conference on Information Technology (ACIT)	2024
21	Detection of Thyroid Disease Through Machine Learning Technique	2024 25th International Arab Conference on Information Technology (ACIT)	2024
22	Advancing Stroke Prediction: Explainable Machine Learning Models and Data Augmentation Strategies	2024 25th International Arab Conference on Information Technology (ACIT)	2024



23	Expert Phishing Detection System	2024 IEEE International Conference on Industry 4.0, Artificial Intelligence, and Communications Technology (IAICT)	2024
24	A Comparative Study of Transformers Embeddings for Question Answering in Arabic Private Documents	2023 IEEE/ACIS 8th International Conference on Big Data, Cloud Computing, and Data Science (BCD)	2024
25	Machine Learning-Based Approach for Detecting DDoS Attack in SDN	2023 2nd International Engineering Conference on Electrical, Energy, and Artificial Intelligence (EICEEAI)	2023
26	Logistic Regression Classification for Assessing the Risk of Kidney Tumor	2023 2nd International Engineering Conference on Electrical, Energy, and Artificial Intelligence (EICEEAI)	2023
27	Forensic Handwriting and Signatures Using Machine Learning Techniques	2023 2nd International Engineering Conference on Electrical, Energy, and Artificial Intelligence (EICEEAI)	2023
28	A Hybrid Distance Technique to Optimize the K-Nearest Neighbor Algorithm	2023 2nd International Engineering Conference on Electrical, Energy, and Artificial Intelligence (EICEEAI)	2023
29	Optimization of COCOMO-II Model Parameters Using Hybrid Algorithm of Cuckoo Search Algorithm and GA	2023 2nd International Engineering Conference on Electrical, Energy, and Artificial Intelligence (EICEEAI)	2023



30	Heart Disease Risk Assessment and Prediction: A Robust Ensemble Approach with Extra Tree Classifier	2023 2nd International Engineering Conference on Electrical, Energy, and Artificial Intelligence (EICEEAI)	2023
31	Human-Computer Interaction in Augmented Reality: Applications and Challenges	2023 2nd International Engineering Conference on Electrical, Energy, and Artificial Intelligence (EICEEAI)	2023
32	Feature Selection for Robust Spoofing Detection: A Chi-Square-based Machine Learning Approach	2023 2nd International Engineering Conference on Electrical, Energy, and Artificial Intelligence (EICEEAI)	2023
33	Cybersecurity Threats in the Era of AI: Detection of Phishing Domains Through Classification Rules	2023 2nd International Engineering Conference on Electrical, Energy, and Artificial Intelligence (EICEEAI)	2023
34	Deep Feature Extraction Framework Based on DNN for Enhancing Mirai Attachment Classification in Machine Learning	2023 2nd International Engineering Conference on Electrical, Energy, and Artificial Intelligence (EICEEAI)	2023
35	A Study of Forensic Tools Data Recovery Performance	2023 2nd International Engineering Conference on Electrical, Energy, and Artificial Intelligence (EICEEAI)	2023
36	Towards Advancing Distributed Data Mining: Intelligent Agent Systems	2023 2nd International Engineering Conference on Electrical, Energy, and	2023



		Artificial Intelligence (EICEEAI)	
37	Securing Smart Homes Using Hybrid Stacking Ensemble Deep Learning-Enabled Framework	2023 2nd International Engineering Conference on Electrical, Energy, and Artificial Intelligence (EICEEAI)	2023
38	Optimizing Road Safety through Intelligent Congestion Management	2023 24th International Arab Conference on Information Technology (ACIT)	2023
39	A Comprehensive Technical Analysis of URL Redirect Attacks: A Case Study of British Airways Data Breach	2023 24th International Arab Conference on Information Technology (ACIT)	2023
40	Internal Hidden Processing Model-Based for SELECT Command in Structured Query Language	2023 24th International Arab Conference on Information Technology (ACIT)	2023
41	Fine-tuning pre-trained models for automated analysis of ophthalmic imaging in diagnosing eye diseases	2023 24th International Arab Conference on Information Technology (ACIT)	2023
42	Toward Identifying The Best Base Classifier in Multi Label Classification-an Investigative Study	2023 24th International Arab Conference on Information Technology (ACIT)	2023
43	Nhs wannacry ransomware attack: Technical explanation of the vulnerability, exploitation, and countermeasures	2022 International Engineering Conference on Electrical, Energy, and Artificial Intelligence (EICEEAI)	2022
44	A reinforcement Learning-based Assignment Scheme for EVs to Charging Stations	95 <sup>th</sup> IEEE Vehicular Technology Conference (VTC)	2022
45	A Data Science Approach for Predicting Crowdfunding Success	2022 International Engineering Conference on Electrical, Energy, and Artificial Intelligence (EICEEAI)	2022



46	Polarity Classification of Hotel Reviews: Lexicon-Based Method	2022 International Arab Conference on Information Technology (ACIT)	2022
47	EEG-Based Discrimination Between Patients with MCI and Alzheimer	2022 International Engineering Conference on Electrical, Energy, and Artificial Intelligence (EICEEI)	2022
48	Message Broadcasting Algorithm Implementation Using Mobile Long Term Evolution and Narrow Band Internet of Things Over Intelligent Transportation System (ITS)	2022 International Arab Conference on Information Technology (ACIT)	2022
49	Enhancing phishing url detection: A comparative study of machine learning algorithms	Proceedings of the 2023 Asia Conference on Artificial Intelligence, Machine Learning and Robotics	2023
50	Improving Organizations Security Using Visual Cryptography Based on XOR and Chaotic-Based Key	2022 International Engineering Conference on Electrical, Energy, and Artificial Intelligence (EICEEI)	2022
51	A Critical Evaluation of A Recent Cybersecurity Attack on iTunes Software Updater	2022 International Engineering Conference on Electrical, Energy, and Artificial Intelligence (EICEEI)	2022
52	EV Charging Station Placement and Sizing Techniques: Survey, Challenges and Directions for Future Work	2022 International Arab Conference on Information Technology (ACIT)	2022
53	Internet of Robotic Things in Early Childhood Education: Domains and Challenges	2022 International Arab Conference on Information Technology (ACIT)	2022
54	Vulnerabilities in Vehicular Ad Hoc Networks and Possible Countermeasures	2022 International Arab Conference on Information Technology (ACIT)	2022



55	An Energy Efficient Strategy for Assignment of Electric Vehicles to Charging Stations in Urban Environments	11 <sup>th</sup> International Conference on Information and Communication Systems, ICICS	2020
56	Energy-efficient EV Charging Station Placement for E-Mobility	46th Annual Conference of the IEEE Industrial Electronics Society, IECON	2020
57	Optimal placement and capacity of electric vehicle charging stations in urban areas: Survey and open challenges	2019 IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology, JEEIT 2019 - Proceedings	2019

## Publications (Book Chapters):

#	Title	Publisher	Year
1	Advancements and Challenges in the Internet of Drones Security Issues: A Comprehensive Review	Machine Intelligence Applications in Cyber-Risk Management	2025
2	An Assessment of Obfuscated Bad Rabbit Ransomware Detection and Prevention Methods	Artificial Intelligence and Economic Sustainability in the Era of Industrial Revolution 5.0	2024
3	Towards serverless & microservices architecture: strategies, challenges, and insights into Technology	Artificial Intelligence and Economic Sustainability in the Era of Industrial Revolution 5.0	2024
4	Intelligent Edge: The Intersection of Artificial Intelligence and Digital Communication—A Survey	Artificial Intelligence and Economic Sustainability in the Era of Industrial Revolution 5.0	2024



5	Transmission Line Fault Detection Using Arduino and GSM	Intelligent Systems, Business, and Innovation Research	2024
6	Simulation of routing protocols for jamming attacks in mobile ad-hoc network	Risk Assessment and Countermeasures for Cybersecurity	2024
7	Enhancing 2d logistic chaotic map for gray image encryption	Risk Assessment and Countermeasures for Cybersecurity	2024
8	A comprehensive review of machine learning-based intrusion detection techniques for IoT networks	Artificial Intelligence, Internet of Things, and Society 5.0	2023

## Supervision of Theses (Masters):

#	Year	University	Thesis Title	Student Name
1	2025	Zarqa University	Energy-Efficient Approach for Allocation of Hydrogen Vehicle Refueling Station	Mays Khalil Mahmoud
2	2024	Zarqa University	Optimal Allocation of Electric Vehicle Charging Stations in Cities	Malak Nooran Almajali
3	2022	Northumbria University	Examining the big data application that uses mining tools and techniques for data mining and storage scaling process	Vishal Yadagani
4	2022	Northumbria University	Cloud computing IaaS management	Mohamed Abdulla Saleh Naser



## Personal Information

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