



University of Central Punjab, Lahore

Faculty of Information Technology & Computer Science (FOIT&CS) - 2024

▪ Journal Publications (January-December, 2024)

Sr. No.	Faculty Member's Name	Publication Title	Journal	Category	Impact Factor	Year
1	Dr. Amin Ullah	Studying the Invasion of Drones in Indigenous Areas Using Machine Learning Techniques	UCP Journal of Engineering & Information Technology	Non-Recognized	Non-Impact Factor	2024
2	Dr. Amin Ullah	Performance Evaluation of MANET Routing Protocols Based on Size and Speed Parameters	UCP Journal of Engineering & Information Technology	Non-Recognized	Non-Impact Factor	2024
3	Dr. Amin Ullah	Smart cities: the role of Internet of Things and machine learning in realizing a data-centric smart environment	Complex & Intelligent Systems	X	5.8	2024

4	Dr. Amin Ullah	High-Definition Image Formation Using Multi- stage Cycle Generative Adversarial Network with Applications in Image Forensic	Arabian Journal for Science and Engineering	W	2.9	2024
5	Annas Waseem Malik & Dr. David Samuel Bhatti	Cloud Digital Forensics: Beyond Tools, Techniques, and Challenges	Sensors	W	3.9	2024
6	Dr. David Samuel Bhatti & Annas Wasim Malik	Performance analysis: Securing SIP on multi- threaded/multi-core proxy server using public keys on Diffie–Hellman (DH) in single and multi-server queuing scenarios	PLoS ONE	W	3.7	2024
7	Dr. David Samuel Bhatti	Detection and isolation of wormhole nodes in wireless ad hoc networks based on post-wormhole actions	Scientific Reports	W	4.6	2024
8	Dr. David Samuel Bhatti	IoT-Enhanced Transport and Monitoring of Medicine Using Sensors, MQTT, and Secure Short Message Service	IEEE Access	W	3.9	2024
9	Dr. David Samuel Bhatti	Design and Evaluation of Memory Efficient Data Structure Scheme for Energy Drainage Attacks in Wireless Sensor Networks	IEEE Access	W	3.9	2024
10	Dr. Saeed Iqbal Khattak	Hybrid Parallel Fuzzy CNN Paradigm: Unmasking Intricacies for Accurate Brain MRI Insights	IEEE Transactions on Fuzzy Systems	W	11.9	2024

11	Rabia Arshad	User clustering in cell-free massive MIMO NOMA system: A learning based and user centric approach	AEJ - Alexandria Engineering Journal	W	6.8	2024
12	Dr. Saeed Iqbal Khattak	Adaptive magnification network for precise tumor analysis in histopathological images	Computers in Human Behavior	W	9.9	2024
13	Dr. Muhammad Zubair	An Improved Machine Learning-Driven Framework for Cryptocurrencies Price Prediction With Sentimental Cautioning	IEEE Access	W	3.9	2024
14	Dr Adnan Ghafoor & Dr Muhammad Umair	Exploring the impact of SEO-based ranking factors for voice queries through machine learning	Artificial Intelligence Review	W	12	2024
15	Muhammad Arham Tariq	A Study on Comparative Analysis of Feature Selection Algorithms for Students Grades Prediction	Journal of Information and Organizational Sciences	Y	0.3	2024
16	Dr. Saeed Iqbal Khattak & Dr. Imran Arshad Chodhry	Hybrid deep spatial and statistical feature fusion for accurate MRI brain tumor classification	Frontiers in Computational Neuroscience	X	2.1	2024
17	Rabia Arshad	Empirical design and comprehensive analysis of multiport converter in distributed generation enabled microgrids	Energy Reports	W	4.7	2024

18	Dr. Muhammad Zubair	Unveiling the Correlation between Nonfunctional Requirements and Sustainable Environmental Factors Using a Machine Learning Model	Sustainability	W	3.3	2024
19	Waseem Akram	Transfer Learning Empowered Bone Fracture Detection	Decision Making Advances	Non-Recognized	Non-Impact Factor	2024
20	Waseem Akram	Optimizing Misinformation Control: A Cloud- Enhanced Machine Learning Approach	Information Dynamics and Applications	Non-Recognized	Non-Impact Factor	2024
21	Waseem Akram	Enhanced Real-Time Facial Expression Recognition Using Deep Learning	Acadlore Transactions on AI and Machine Learning	Non-Recognized	Non-Impact Factor	2024
22	Dr Abbas Khalid	Remote mobile health monitoring frameworks and mobile applications: Taxonomy, open challenges, motivation, and recommendations	Engineering Applications of Artificial Intelligence	W	7.5	2024
23	Dr Saeed Iqbal Khattak	AD-CAM: Enhancing Interpretability of Convolutional Neural Networks With a Lightweight Framework - From Black Box to Glass Box	IEEE Journal of Biomedical and Health Informatics	W	6.7	2024
24	Salman Muneer	A Critical Review of Artificial Intelligence Based Approaches in Intrusion Detection: A Comprehensive Analysis	Journal of Engineering (United Kingdom)	X	1.7	2024

25	Dr Kashif Nasr	Partition Identification and Redeployment Algorithm Through Neighbourhood Information	Wireless Personal Communications	1.9	W Category	2024
26	Muhammad Zulkifl Hasan	Beyond Traditional Techniques for Enhancement of Digital Forensics for Cloud	Spectrum of Engineering Sciences	Non-Recognized	Non-Impact Factor	2024
27	Muhammad Zulkifl Hasan	Comprehensive Model Comparison for Intrusion Detection in UNR-IDD Dataset: Evaluating Naïve Bayes, Decision Tree, Random Forest, K-Neighbors, and LSTM	VAWKUM Transactions on Computer Sciences	Y	Non-Impact Factor	2024
28	Muhammad Zulkifl Hasan	Hybrid Intrusion Detection System for RPL IoT Networks Using Machine Learning and Deep Learning	IEEE Access	W	3.4	2024
29	Muhammad Zulkifl Hasan	AN EFFICIENT MACHINE LEARNING-BASED DETECTION AND PREDICTION MECHANISM FOR CYBER THREATS USING INTELLIGENT FRAMEWORK IN IOTS	JOURNAL OF MECHANICS OF CONTINUA AND MATHEMATICAL SCIENCES	Non-Recognized	Non-Impact Factor	2024
30	Muhammad Zulkifl Hasan	Low Network Power Challenges in IoT-Based Applications in Smart Cities	Journal of Advanced Research in Applied Sciences and Engineering Technology	Non-Recognized	Non-Impact Factor	2024

31	Ahmad Arsalan & Zupash Awais	NO-DSA: A Novel and Optimal Forwarding Protocol for Data Packet Storm Avoidance in Named Data NetworkBased Internet of Vehicles (NDN-IoVs)	Pakistan Journal of Multidisciplinary Research	Y	Non-Impact Factor	2024
32	Ahmad Arsalan	Mitigation of Interest Flooding Attack and Controlled Packet Propagation in Named Internet of Vehicles	IEEE Access	W	3.4	2024
33	Taimoor Hassan	Use of Code Refactoring Transformation in Software Advancement	Lahore Garrison University Research Journal of Computer Science and Information Technology	Y	Non-Impact Factor	2024
34	Syed Zulqadar Hassan	Improving Distribution Power System Efficiency using Power Loss Reduction by Installing the Distributed Generations	Journal of Engineering Research and Sciences (JENRS)	Non-Recognized	Non-Impact Factor	2024
35	Syed Zulqadar Hassan	Electrification of Transportation: Policy Framework, Technical Aspects and Challenges in Pakistan - A Case Study	e-Prime - Advances in Electrical Engineering, Electronics and Energy	Non-Recognized	Non-Impact Factor	2024

36	Dr Rabia Tehseen	UNLOCKING COMPETITIVE ADVANTAGE: THE NEXUS OF INFORMATION TECHNOLOGY, ABSORPTIVE CAPACITY, AND DYNAMIC CAPABILITIES IN ORGANIZATIONAL PERFORMANCE	Remittances Review	X	Non-Impact Factor	2024
37	Dr Rabia Tehseen	INFORMATION TECHNOLOGIES DRIVING INNOVATION IN BIOLOGICAL SCIENCE: A FOCUS ON BIOINFORMATICS APPLICATION DEVELOPMENT	Journal of Population Therapeutics and Clinical Pharmacology	X	Non-Impact Factor	2024
38	Dr Rabia Tehseen	ENHANCING DIAGNOSTIC ACCURACY IN SKIN CANCER: A STUDY ON AI-BASED IMAGE CLASSIFICATION	Journal of Population Therapeutics and Clinical Pharmacology	X	Non-Impact Factor	2024
39	Dr Rabia Tehseen & Dr Mohsin Ashraf	AI-Powered Phishing Detection and Mitigation for IoT-Based Smart Home Security	Journal of Computing & Biomedical Informatics	Y	Non-Impact Factor	2024
40	Dr Rabia Tehseen	Plant Disease Detection Using Computational Approaches: A Systematic Literature Review	International Journal of Innovations in Science & Technology	Y	Non-Impact Factor	2024
41	Dr Rabia Tehseen	Predicting Depression Among Type 2 Diabetic Patients Using Federated Learning	International Journal of Innovations in Science & Technology	Y	Non-Impact Factor	2024

42	Dr Rabia Tehseen & Maham Mehr Awan	Machine Learning in Livestock Management: A Systematic Exploration of Techniques and Outcomes	International Journal of Innovations in Science & Technology	Y	Non-Impact Factor	2024
43	Dr Rabia Tehseen & Maham Mehr Awan	Prediction of Brain Stroke Using Federated Learning	International Journal of Innovations in Science & Technology	Y	Non-Impact Factor	2024
44	Dr Rabia Tehseen	Cyber Security Intrusion Detection Scheme for Malicious Traffic in IoT using Federated Learning	International Journal for Electronic Crime Investigation	Non-Recognized	Non-Impact Factor	2024
45	Dr Rabia Tehseen & Maham Mehr Awan	Advanced AI Mechanics in Unity 3D for Immersive Gameplay: A Study on Finite State Machines & Artificial Intelligence	International Journal of Innovations in Science & Technology	Y	Non-Impact Factor	2024
46	Dr Rabia Tehseen & Maham Mehr Awan	Impact of climatic anomalies and reservoir induced seismicity on earthquake generation using Federated Learning	VFAST Transactions on Software Engineering	Y	Non-Impact Factor	2024
47	Rabia Arshad	Wavelet NOMA for cell-free massive MIMO: mitigating intra-cluster and inter-cluster interference in future wireless communication systems	Telecommunication Systems	W	1.7	2024

48	Dr Saeed Iqbal Khattak	Enhanced gastric cancer classification and quantification interpretable framework using digital histopathology images	Scientific Reports	W	3.8	2024
49	Dr Saeed Iqbal Khattak	From Data to Diagnosis: Enhancing Radiology Reporting With Clinical Features Encoding and Cross-Modal Coherence	IEEE Access	W	3.4	2024
50	Dr Saeed Iqbal Khattak	Novel hybrid data-driven models for enhanced renewable energy prediction	Frontiers in Energy Research	W	2.6	2024
51	Dr Saeed Iqbal Khattak	Dynamic selectout and voting-based federated learning for enhanced medical image analysis	Machine Learning: Science and Technology	W	6.3	2024
52	Dr. Saeed Iqbal Khattak & Dr. Imran Arshad Chodhry	A Novel Interpretable Graph Convolutional Neural Network for Multimodal Brain Tumor Segmentation	Cognitive Computation	W	4.9	2024
53	Dr. Saeed Iqbal Khattak & Dr. Imran Arshad Chodhry	Transforming Lung Disease Diagnosis With Transfer Learning Using Chest X-Ray Images on Cloud Computing	Expert Systems	X	3	2024
54	Dr. Saeed Iqbal Khattak & Dr. Imran Arshad Chodhry	Privacy-preserving AI for early diagnosis of thoracic diseases using IoTs: A federated learning approach with multi-headed self-attention for facilitating cross-institutional study	Internet of Things	W	6	2024

55	Dr Ali Saeed	Optimizing Brain Tumor Prediction: A Comparative Study Of Machine Learning Algorithms	VFAST Transactions on Software Engineering	Y	Non-Impact Factor	2024
56	Dr Ali Saeed	Cross-Lingual English–Urdu Semantic Word Similarity Using Sentence Transformers	The European Journal on Artificial Intelligence	W	1.4	2024
57	Dr Ali Saeed	Topic Modelling for Urdu Articles Using Unsupervised Learning Approaches	Pakistan Journal of Scientific Resaerch	Y	Non-Impact Factor	2024
58	Dr Ali Saeed	PREDICTION OF DENGUE CASES AND DEATHS USING MACHINE LEARNING ALGORITHM	Pakistan Journal of Scientific Resaerch	Y	Non-Impact Factor	2024
59	Dr Ali Saeed & Dr Hafiz Mahfooz ul Haque	Advanced Machine Learning Algorithms for Accurate Prediction of Band Gaps in Rare Earth Metal Oxides Nanoparticles	ES Energy & Environment (ESEE)	Non-Recognized	Non-Impact Factor	2024
60	Dr Hafiz Mahfooz Ul Haque	Formal modelling and verification of autonomous reasoning based flight simulation system	Lahore Garrison University Research Journal of Computer Science and Information Technology	Y	Non-Impact Factor	2024

61	Dr Muhammad Umair & Dr Muhammad Amjad Iqbal	Leveraging deep learning for toxic comment detection in cursive languages	PeerJ Computer Science	W	3.8	2024
62	Dr Mohsin Ashraf	Optimized Music Classification with a Hybrid VGG16-RNN Using Mel-Spectrogram and MFCC Features	VFAST Transactions on Software Engineering	Y	Non-Impact Factor	2024
63	Dr Mohsin Ashraf	Self-Supervised Image Segmentation Using Meta-Learning and Multi-Backbone Feature Fusion	International Journal of Neural Systems	W	6.6	2024
64	Dr Syed Atif Mehdi & Kanwal Atif	A Dynamic Architecture to Control Multi-Rotors Using Hand Gestures	International Journal of Innovations in Science & Technology	Y	Non-Impact Factor	2024
65	Dr Muhammad Sarwar Ehsan	Critical analysis of Parkinson's disease detection using EEG sub-bands and gated recurrent unit	Engineering Science and Technology, an International Journal	W	5.1	2024
66	Hamza Naveed	Assessment of bio-medical waste disposal techniques using interval-valued q-rung orthopair fuzzy soft set based EDAS method	Artificial Intelligence Review	W	10.7	2024
67	Dr Abbas Khalid	Remote mobile health monitoring frameworks and mobile applications: Taxonomy, open challenges, motivation, and recommendations	Engineering Applications of Artificial Intelligence	W	7.5	2024

68	Muhammad Arham Tariq	A Study on Comparative Analysis of Feature Selection Algorithms for Students Grades Prediction	Journal of Information and Organizational Sciences	X	0.3	2024
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▪ Conference & Miscellaneous Publications

Sr. No.	Faculty Member's Name	Paper Title	Conference Title/Book Chapter	Year
1	Dr. Imran Arshad Choudhry	Intelligent Buffer Management Policy in Post Disaster Network Using DTN	2023 25th International Multitopic Conference (INMIC)	2024
2	Dr Kashif Nasr	Enhancing Plant Health Management: A Comparative Analysis of YOLOv8 and YOLOv9 for AI-Based Disease Detection in Smart Agriculture	FUSST International Conference on Computer Science and Engineering	2024
3	Dr Kashif Nasr	Reconstructing Facebook Artifacts: A Volatile Memory Forensics for Cybercrime Investigation on Windows	FUSST International Conference on Computer Science and Engineering	2024
4	Muhammad Zulkifl Hasan & Ghulam Mustafa	Implementation of a Blockchain-Based Secure Cloud Computing Mechanism for Transactions	Blockchain-based Internet of Things (Book)	2024
5	Maham Mehr Awan	Quantification of Pakistani Brand's responsiveness on Social Media: Twitter	IEEE	2024

6	Muhammad Umair Munir	EmoDetect: A Learning-Centred Affective Database for Detecting Student Frustration in Online Learning	5th International Conference on Advancements in Computational Sciences (ICACS)	2024
7	Rabia Arshad	Realizing Artificial Intelligence in Healthcare: Applications and Challenges	3rd International Conference on Emerging Trends in Electrical, Control, and Telecommunication Engineering (ELECTE)	2024
8	Muhammad Ammar Hassan	Autism Detection in Children by Features Extraction and Classification Using a Deep Learning Model	IEEE Horizons of Information Technology and Engineering (HITE 2024)	2024
9	Muhammad Ammar Hassan	A comprehensive survey on Computing Services To Detect Stress and Anxiety using smart devices	18th International Conference on Open Source Systems and Technologies (ICOSST)	2024
10	Dr Ramsha Naeem	An Examination of Costs incurred by Pak Suzuki's Administration	Entrepreneurship & Sustainability Impact Conference 2024	2024