



# University of Central Punjab

(Incorporated by Ordinance No. XXIV of 2002 promulgated by Government of the Punjab)

## Faculty of Information Technology & Computer Science (FOIT&CS)

### ▪ Journal Publications 2025

Sr. No.	Faculty Member's Name	Designation	Title of Publication	Name of Journal	HEC Category of Journal	Journal's Impact Factor
1	Dr. Muhammad Amjad Iqbal	Professor	A deep learning-based ensemble for autism spectrum disorder diagnosis using facial images	PLoS One	W	2.6
2	Dr. Muhammad Amjad Iqbal	Professor	A fusion of CNN and SIFT For multicultural facial expression recognition	Multimedia Tools and Applications	Non-Recognized	Non-Impact Factor
3	Dr. Muhammad Amjad Iqbal	Professor	A hybrid deep learning framework for early-stage Alzheimer's disease classification from neuro-imaging biomarkers	IEEE Access	W	3.3
4	Dr. Muhammad Amjad Iqbal	Professor	Leveraging CuMeta for enhanced document classification in cursive languages with transformer stacking	Multimedia Tools and Applications	Non-Recognized	Non-Impact Factor
5	Dr. Muhammad Amjad Iqbal	Professor	Brain MRI classification and segmentation on TCGA-LGG and TCIA dataset	Journal of Innovative Computing and Emerging Technologies	Y	Non-Impact Factor



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6	Dr. Naveed Hussain	Associate Professor	Next word prediction for Urdu using deep learning techniques	VFAST Transactions on Software Engineering	Y	Non-Impact Factor
7	Dr. Naveed Hussain	Associate Professor	Modeling sleep health and lifestyle using supervised learning algorithms	Journal of Computing & Biomedical Informatics	Y	Non-Impact Factor
8	Dr. Muzammil Hussain	Associate Professor	A comprehensive review of techniques, algorithms, advancements, challenges, and clinical applications of multi-modal medical image fusion for improved diagnosis	Computer Methods and Programs in Biomedicine	W	4.8
9	Dr. Muzammil Hussain	Associate Professor	An interpretable framework for gastric cancer classification using multi-channel attention mechanisms and transfer learning approach on histopathology images	Scientific Reports	W	3.8
10	Dr. Mohsin Ashraf	Associate Professor	Self-supervised image segmentation using meta-learning and multi-backbone feature fusion	International Journal of Neural Systems	W	6.4
11	Dr. Mohsin Ashraf	Associate Professor	Music genre classification with modified residual learning and dual neural network	PLoS One	W	2.6
12	Wishal Arshad	Lecturer	HistoDX: revolutionizing Breast Cancer diagnosis through advanced imaging techniques	IEEE Access	W	3.3
13	Dr. Saeed Iqbal Khattak & Imran Arsha Choudhry	Associate Professor	A Novel interpretable graph convolutional neural network for multimodal brain tumor segmentation	Cognitive Computation	W	4.3
14	Dr. Saeed Iqbal Khattak & Imran Arsha Choudhry	Associate Professor	Continual and wisdom learning for federated learning: a comprehensive framework for robustness and debiasing	Information Processing & Management	W	6.9



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15	Dr. Saeed Iqbal Khattak	Associate Professor	Transforming Lung Disease diagnosis with transfer learning using chest X-Ray images on cloud computing	Expert Systems	W	2.3
16	Dr. Saeed Iqbal Khattak	Associate Professor	A novel reciprocal domain adaptation neural network for enhanced diagnosis of chronic kidney disease	Expert Systems	W	2.3
17	Dr. Saeed Iqbal Khattak	Associate Professor	FusionGCNN: an IoT-Based novel spatiotemporal graph convolutional network for ECG Arrhythmia detection	IEEE Internet of Things Journal	W	8.2
18	Dr. Saeed Iqbal Khattak & Imran Arsha Choudhry	Associate Professor	Hierarchical continual learning for domain-knowledge retention in healthcare federated learning	IEEE Transactions on Consumer Electronics	W	10.9
19	Dr. Saeed Iqbal Khattak	Associate Professor	Transforming healthcare diagnostics with tensorized attention and continual learning on multi-modal data	IEEE Transactions on Consumer Electronics	W	10.9
20	Dr. Saeed Iqbal Khattak	Associate Professor	Dynamic select out and voting-based federated learning for enhanced medical image analysis	Machine Learning: Science and Technology	W	4.6
21	Dr. Saeed Iqbal Khattak	Associate Professor	FairBias: mitigating bias in medical image diagnosis with mixed noise and class imbalance	Neurocomputing	W	6.5
22	Dr. Saeed Iqbal Khattak	Associate Professor	Adaptive fuzzy convolution networks for uncertainty-aware image analysis in ambiguous environments	Expert Systems with Applications	W	7.5
23	Dr. Saeed Iqbal Khattak	Associate Professor	Core unlearning: a multi-modal gradient-efficient architecture for exact and approximate model rewriting	Information Processing & Management	W	6.9
24	Dr. Saeed Iqbal Khattak & Imran Arsha Choudhry	Associate Professor	Domain adaptive FL for edge-enabled privacy-preserving MRI analysis	Alexandria Engineering Journal	W	6.8



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25	Dr. Saeed Iqbal Khattak	Associate Professor	Family-based continual learning for multi-domain pattern analysis in federated frameworks with GCN and ViT	Neural Networks	W	6.3
26	Dr. Saeed Iqbal Khattak	Associate Professor	Federated autoencoder model for secure medical image analysis with privacy preservation and assurance	IEEE Journal of Biomedical and Health Informatics	W	6.7
27	Dr. Muhammad Umair	Associate Professor	Enhanced glaucoma classification through advanced segmentation by integrating cup-to-disc ratio and neuro-retinal rim features	Computerized Medical Imaging and Graphics	W	4.9
28	Dr. Muhammad Umair	Associate Professor	An improved hybrid deep learning approach for security requirements classification	Computers, Materials and Continua	W	1.7
29	Dr. Muhammad Umair	Associate Professor	Divulging patterns: An analytical review for machine learning methodologies for breast cancer detection	Journal of Cancer	W	3.4
30	Dr. Muhammad Umair	Associate Professor	Detection and recognition of bilingual Urdu and English text in natural scene images using a convolutional neural network–recurrent neural network combination with a connectionist temporal classification decoder	Sensors	W	3.5
31	Dr Syed Atif Mehdi	Assistant Professor	A robotic simulation for aerial monitoring and disease detection of gladiolus field	International Journal of Innovations in Science and Technology	Y	Non-Impact Factor
32	Dr David Samuel Bhatti	Assistant Professor	Legal Query RAG	IEEE Access	W	3.3



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33	Dr David Samuel Bhatti	Assistant Professor	AI-Driven HSI: multimodality, fusion, challenges, and the deep learning revolution	ArXiv (2331-8422)	Non-Recognized	Non-Impact Factor
34	Dr David Samuel Bhatti	Assistant Professor	Outage reduction in 5G uplink cooperative NOMA using PSO-optimized relay selection and successive interference cancelation	EURASIP Journal on Wireless Communications and Networking	W	1.9
35	Dr David Samuel Bhatti	Assistant Professor	Deep learning-based single-shot computational spectrometer using multilayer thin films	Scientific Reports	W	3.8
36	Dr David Samuel Bhatti & Annas Waseem Malik	Assistant Professor	Sine-polynomial chaotic map (SPCM): A decent cryptographic solution for image encryption in wireless sensor networks	Computers, Materials & Continua	W	1.7
37	Dr Rabia Tehseen	Assistant Professor	Exploring convolutional neural networks for rice grain classification: An explainable AI approach	ArXiv (2331-8422)	Non-Recognized	Non-Impact Factor
38	Dr Rabia Tehseen & Dr. Anam Mustaqeem	Assistant Professor	Systematic literature review on application of naive bayes algorithm for large audio data classification	Journal of Computing & Biomedical Informatics	Y	Non-Impact Factor
39	Dr Rabia Tehseen & Dr. Anam Mustaqeem	Assistant Professor	Incremental learning with self-organizing bayesian adaptive incremental network (SOBAIN)	Journal of Computing & Biomedical Informatics	Y	Non-Impact Factor
40	Mohsin Sami	Senior Lecturer	Hierarchical bayesian neural networks (HBNNs) for large data classification	RAIR (Robotics and Artificial Intelligence Review)	Non-Recognized	Non-Impact Factor



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41	Dr Rabia Tehseen	Assistant Professor	IoT-based automated artificial rainfall system for smog control: a systematic literature review	International Journal of Environmental Science and Technology	W	3.4
42	Dr Rabia Tehseen & Anam Mustaqeem	Assistant Professor	A Framework for fraud detection in banking transactions using machine learning and federated learning	International Journal of Innovations in Science & Technology	Y	Non-Impact Factor
43	Dr Rabia Tehseen	Assistant Professor	Deep Learning-Based multiclass classification of diseases in cucumber fruit: Enhancing agriculture diagnosis	International Journal of Innovations in Science & Technology	Y	Non-Impact Factor
44	Dr Rabia Tehseen	Assistant Professor	Role of machine learning in livestock health monitoring system: A systematic literature review	International Journal of Innovations in Science & Technology	Y	Non-Impact Factor
45	Dr Rabia Tehseen	Assistant Professor	Enhancing non-player characters (NPC) behaviour in video games using reinforcement learning	International Journal of Innovations in Science & Technology	Y	Non-Impact Factor
46	Dr Rabia Tehseen & Dr. Anam Mustaqeem	Assistant Professor	Hybrid deep learning approach for EEG-based epilepsy detection	International Journal of Innovations in Science & Technology	Y	Non-Impact Factor



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47	Dr Rabia Tehseen & Dr. Anam Mustaqeem	Assistant Professor	Advancements in automatic text summarization using natural language processing	International Journal of Innovations in Science & Technology	Y	Non-Impact Factor
48	Dr Rabia Tehseen	Assistant Professor	Exploring convolutional neural networks for rice grain classification: An explainable AI approach	ArXiv (2331-8422)	Non-Recognized	Non-Impact Factor
49	Dr Rabia Tehseen, Mohsin Sami, Saira Andleeb Gillani & Kashif Nasr	Assistant Professor	Agentic multimodal framework for adaptive Sign language translation	Journal of Computing & Biomedical Informatics, ISSN: 2710-1606	Y	Non-Impact Factor
50	Dr Rabia Tehseen, Mohsin Sami, Saira Andleeb Gillani & Kashif Nasr	Assistant Professor	Improving software security through an LLM-Based vulnerability detection model	International Journal of Innovations in Science & Technology	Y	Non-Impact Factor
51	Dr. Saira Andleeb Gillani	Professor	A novel RMS-driven deep reinforcement learning for optimized portfolio management in stock trading	IEEE Access	W	3.6
52	Dr. Saira Andleeb Gillani	Professor	Vision-based approach to knee osteoarthritis and Parkinson's disease detection utilizing human gait patterns	PeerJ Computer Science (2376-5992)	W	2.5
53	Dr. Saira Andleeb Gillani	Professor	A region-aware deep learning model for dual-subject gait recognition in occluded surveillance scenarios	Computer Modeling in Engineering & Sciences	W	2.5



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54	Dr Ghulam Mustafa	Assistant Professor	Investigation of thermal management capacity of Casson electrolytes in porous electrodes in lithium-ion battery applications	Battery Energy (2768-1688)	X	9.9
55	Dr Ghulam Mustafa	Assistant Professor	Driver drowsiness detection system by real time eye state identification	Spectrum of Engineering Sciences	Y	Non-Impact Factor
56	Dr Ghulam Mustafa	Assistant Professor	The emotional compass: navigating the realm of human emotions using EEG and physiological signals	Spectrum of Engineering Sciences	Y	Non-Impact Factor
57	Syed Zulqadar Hassan	Associate Professor	Economic value creation of artificial intelligence in supporting variable renewable energy resource integration to power systems: A systematic review	Sustainability	W	3.3
58	Dr Ali Saeed & Naveed Hussain	Associate Professor	Next word prediction for Urdu using deep learning techniques	VFAST Transactions on Software Engineering	Y	Non-Impact Factor
59	Dr Ali Saeed	Associate Professor	Cross-Lingual English-Urdu semantic word similarity using sentence transformers	The European Journal on Artificial Intelligence	W	1
60	Dr Ali Saeed	Associate Professor	Echoes of Opinion: leveraging advanced deep learning for spotify review classification	Journal of Computing & Biomedical Informatics	Y	Non-Impact Factor
61	Dr Ali Saeed	Associate Professor	Predictive job category classification using deep learning and transformer approaches	VAWKUM Transactions on Computer Sciences	Y	Non-Impact Factor



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62	Dr Ali Saeed & Dr. Hafiz Mahfooz Ul Haque	Associate Professor	AGRITECH: A smart system for sustainable farming	VAWKUM Transactions on Computer Sciences	Y	Non-Impact Factor
63	Dr Ali Saeed	Associate Professor	Modeling sleep health and lifestyle using supervised learning algorithms	Journal of Computing & Biomedical Informatics	Y	Non-Impact Factor
64	Dr Gulshan Saleem	Assistant Professor	Do LLMs know they are being tested? evaluation awareness and incentive-sensitive failures in GPT-OSS-20B	ArXiv (2331-8422)	Non-Recognized	Non-Impact Factor
65	Dr Gulshan Saleem	Assistant Professor	Enhancing wireless device identification through RF fingerprinting: leveraging transient energy spectrum analysis	ArXiv (2331-8422)	Non-Recognized	Non-Impact Factor
66	Dr Gulshan Saleem	Assistant Professor	MetaQAP - A Meta-learning approach for quality-aware pretraining in image quality assessment	ArXiv (2331-8422)	Non-Recognized	Non-Impact Factor
67	Dr Gulshan Saleem	Assistant Professor	SurveillanceNet: spatio-temporal anomaly identification in surveillance videos using two-stream CNN and LSTM	Multimedia Tools and Applications	Non-Recognized	Non-Impact Factor
68	Zupash Awais & Ahmad Arsalan	Senior Lecturer	ISCC: intelligent semantic caching and control for NDN-enabled industrial IoT networks	IEEE Access	W	3.6
69	Mohsin Akram	Lab Instructor	Uncertainty-aware diabetic retinopathy detection using deep learning enhanced by Bayesian approaches	Scientific Reports	W	3.8



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70	Aneela Mehmood	Senior Lecturer	Critical evaluation of data privacy and security threats: An intelligent federated learning-based intrusion detection system poisoning attack and defense for cyber-physical systems its issues and challenges related to privacy and security in IoT	The Asian Bulletin of Big Data Management	Y	Non-Impact Factor
71	Salman Muneer	Lecturer	Responsible CVD screening with a blockchain assisted chatbot powered by explainable AI	Scientific Reports	W	3.8
72	Ahmad Arsalan	Senior Lecturer	Data driven vehicular heterogeneity based intelligent collision avoidance system for internet of vehicles (IoV)	Digital Communications and Networks	W	7.5
73	Ahmad Arsalan	Senior Lecturer	Toward collaborative intelligence in digital twin-based federated deep reinforcement learning: applications, case studies and challenges	IEEE Network	W	Non-Impact Factor
74	Nazish Ashfaq	Associate Lecturer	SkinSight: advancing deep learning for skin cancer diagnosis and classification	Discover Computing	W	Non-Impact Factor
75	Nazish Ashfaq	Associate Lecturer	HCMMA-Net: A hybrid convolutional multi-modal attention network for human activity recognition in smart homes using wearable sensor data	IEEE Access	W	3.6
76	Nazish Ashfaq	Associate Lecturer	An efficient and robust deep learning approach for vehicle recognition using light-weight deep network	International Journal of Innovations in Science & Technology	Y	Non-Impact Factor



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77	Syed Atir Raza Shirazi	Lecturer	A convolutional neural network based optical character recognition for purely handwritten characters and digits	Computers, Materials & Continua	W	1.7
78	Syed Atir Raza Shirazi	Lecturer	Advancing early blight detection in potato leaves through Zeroshot learning	Journal of Imaging	W	3.3
79	Syed Atir Raza Shirazi	Lecturer	Recent advances in machine learning models for antiviral peptide prediction	VAWKUM Transactions on Computer Sciences	Y	Non-Impact Factor
80	Dr. Hafiz Mahfooz Ul Haque	Professor	Semantic knowledge-based reinforcement learning formalism for smart learning environments	Computers, Materials & Continua	W	1.7
81	Dr. Hafiz Mahfooz Ul Haque	Professor	Optimizing patient monitoring with reinforcement learning based context-aware healthcare formalism	Computacion Y Sistemas	X	Non-Impact Factor
82	Dr. Sarwar Ehsan	Professor	Analysis of State of Charge (Soc) estimation algorithms for lithium-ion batteries compared with feedforward neural network	IOSR Journal of Computer Engineering (IOSR-JCE)	Non-Recognized	Non-Impact Factor
83	Dr. Sarwar Ehsan	Professor	Numerical analysis of lassa fever epidemic model	Warisan Journal of Mathematical Sciences and Engineering	Non-Recognized	Non-Impact Factor
84	Dr. Sarwar Ehsan	Professor	Predicting anticancer peptides using chou's pseudo amino acid composition-based features	Journal of Innovative Computing and Emerging Technologies	Y	Non-Impact Factor



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85	Muneeb Ali Muzaffar	Lecturer	Harnessing machine learning for predictive maintenance in IoT-based smart manufacturing environments	UMT Artificial Intelligence Review	Y	Non-Impact Factor
86	Ahmad Arsalan	Senior Lecturer	Toward collaborative intelligence in digital twin-based federated deep reinforcement learning: applications, case studies and challenges	IEEE Network	W	6.3
87	Kanwal Atif	Research Associate	A comparative case study to control drones using hand gestures	Pakistan Journal of Engineering, Technology and Sciences	Y	Non-Impact Factor
88	Dr. Kashif Nasr	Assistant Professor	Unsupervised detection of credential stuffing and account takeover attempts through user behavioral biometrics in web applications	International Journal of Innovations in Science & Technology	Y	Non-Impact Factor
89	Malik Junaid Aziz	Principal Lecturer	A design-oriented classification of microservice smells	UCP Journal of Engineering & Information Technology	Y	Non-Impact Factor
90	Malik Junaid Aziz	Principal Lecturer	Microservice antipatterns: causes, detection, and refactoring challenges	UCP Journal of Engineering & Information Technology	Y	Non-Impact Factor
91	Rabia Arshad	Principal Lecturer	Deep learning-driven multi-user wavelet NOMA for user centric cell-free massive MIMO communications	Alexandria Engineering Journal	W	6.8
92	Muhammad Fiaz	Senior Lecturer	An explainable hybrid deep learning framework for precise skin lesion segmentation and multi-class classification	Frontiers in Medicine	W	3



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93	Mohsin Akram	Lab Instructor	Uncertainty-aware diabetic retinopathy detection using deep learning enhanced by Bayesian approaches	Scientific Reports	W	3.8
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