



# 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 fusion of CNN And SIFT For multicultural facial expression recognition                                          | Multimedia Tools and Applications                         | Non-Recognized          | Non-Impact Factor       |
| 2.      | 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                     |
| 3.      | 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       |
| 4.      | 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       |
| 5.      | Dr. Naveed Hussain       | Associate Professor | Next Word Prediction for Urdu using Deep Learning Techniques                                                      | VFAST Transactions on Software Engineering                | Y                       | Non-Impact Factor       |



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| 6.  | Dr. Naveed Hussain                             | Associate Professor | Modeling Sleep Health and Lifestyle Using Supervised Learning Algorithms                                                                                         | Journal of Computing & Biomedical Informatics | Y | Non-Impact Factor |
| 7.  | 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               |
| 8.  | 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               |
| 9.  | 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               |
| 10. | Dr. Mohsin Ashraf                              | Associate Professor | Music genre classification with modified residual learning and dual neural network                                                                               | PLoS One                                      | W | 2.6               |
| 11. | Wishal Arshad                                  | Lecturer            | HistoDX: Revolutionizing Breast Cancer Diagnosis Through Advanced Imaging Techniques                                                                             | IEEE Access                                   | W | 3.3               |
| 12. | 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               |
| 13. | 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               |
| 14. | 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               |



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| 15. | 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  |
| 16. | 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  |
| 17. | 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 |
| 18. | 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 |
| 19. | Dr. Saeed Iqbal Khattak                        | Associate Professor | Dynamic selectout and voting-based federated learning for enhanced medical image analysis                  | Machine Learning: Science and Technology  | W | 4.6  |
| 20. | Dr. Saeed Iqbal Khattak                        | Associate Professor | FairBias: Mitigating bias in medical image diagnosis with mixed noise and class imbalance                  | Neurocomputing                            | W | 6.5  |
| 21. | 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  |
| 22. | 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  |
| 23. | 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  |
| 24. | 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  |



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| 25. | 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               |
| 26. | 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               |
| 27. | Dr. Muhammad Umair      | Associate Professor | An Improved Hybrid Deep Learning Approach for Security Requirements Classification                                                                                                                                  | Computers, Materials and Continua                              | W              | 1.7               |
| 28. | Dr. Muhammad Umair      | Associate Professor | Divulging Patterns: An Analytical Review for Machine Learning Methodologies for Breast Cancer Detection                                                                                                             | Journal of Cancer                                              | W              | 3.4               |
| 29. | 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               |
| 30. | 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 |
| 31. | Dr David Samuel Bhatti  | Assistant Professor | Legal Query RAG                                                                                                                                                                                                     | IEEE Access                                                    | W              | 3.3               |
| 32. | 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 |



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| 33. | 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               |
| 34. | Dr David Samuel Bhatti                      | Assistant Professor | Deep learning-based single-shot computational spectrometer using multilayer thin films                                     | Scientific Reports                                        | W              | 3.8               |
| 35. | 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               |
| 36. | 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 |
| 37. | Dr Rabia Tehseen & 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 |
| 38. | Dr Rabia Tehseen & Anam Mustaqeem           | Assistant Professor | Incremental Learning with Self-Organizing Bayesian Adaptive Incremental Network (SOBAIN)                                   | Journal of Computing & Biomedical Informatics             | Y              | Non-Impact Factor |
| 39. | Mohsin Sami                                 | Senior Lecturer     | Hierarchical Bayesian Neural Networks (HBNNs) for Large Data Classification                                                | RAIR (Robotics and Artificial Intelligence Review)        | Non-Recognized | Non-Impact Factor |
| 40. | Dr Rabia Tehseen                            | Assistant Professor | IoT-based automated artificial rainfall system for smog control: a systematic literature review                            | International Journal of Environmental                    | W              | 3.4               |



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|     |                                   |                     |                                                                                                              | Science and Technology                                       |   |                   |
| 41. | 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 |
| 42. | 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 |
| 43. | 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 |
| 44. | 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 |
| 45. | Dr Rabia Tehseen & 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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| 46. | Dr Rabia Tehseen & Anam Mustaqeem                                   | Assistant Professor | Advancements in Automatic Text Summarization using Natural Language Processing                               | International Journal of Innovations in Science & Technology   | Y              | Non-Impact Factor |
| 47. | 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 |
| 48. | 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 |
| 49. | 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 |
| 50. | Dr. Saira Andleeb Gillani                                           | Professor           | A Novel RMS-Driven Deep Reinforcement Learning for Optimized Portfolio Management in Stock Trading           | IEEE Access                                                    | W              | 3.6               |
| 51. | 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               |
| 52. | 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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| 53. | 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               |
| 54. | Dr Ghulam Mustafa             | Assistant Professor | DRIVER DROWSINESS DETECTION SYSTEM BY REAL TIME EYE STATE IDENTIFICATION                                                                              | Spectrum of Engineering Sciences                | Y | Non-Impact Factor |
| 55. | 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 |
| 56. | 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               |
| 57. | 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 |
| 58. | Dr Ali Saeed                  | Associate Professor | Cross-Lingual English-Urdu Semantic Word Similarity Using Sentence Transformers                                                                       | The European Journal on Artificial Intelligence | W | 1                 |
| 59. | 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 |
| 60. | 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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| 61. | Dr Ali Saeed &<br>Dr. Hafiz<br>Mahfooz Ul<br>Haque | Associate<br>Professor | AGRITECH: A Smart System for<br>Sustainable Farming                                                                     | VAWKUM<br>Transactions on<br>Computer Sciences         | Y                  | Non-<br>Impact<br>Factor |
| 62. | Dr Ali Saeed                                       | Associate<br>Professor | Modeling Sleep Health and Lifestyle Using<br>Supervised Learning Algorithms                                             | Journal of<br>Computing &<br>Biomedical<br>Informatics | Y                  | Non-<br>Impact<br>Factor |
| 63. | Dr Gulshan<br>Saleem                               | Assistant<br>Professor | Do LLMs Know They Are Being Tested?<br>Evaluation Awareness and Incentive-<br>Sensitive Failures in GPT-OSS-20B         | ArXiv (2331-8422)                                      | Non-<br>Recognized | Non-<br>Impact<br>Factor |
| 64. | Dr Gulshan<br>Saleem                               | Assistant<br>Professor | Enhancing Wireless Device Identification<br>through RF Fingerprinting: Leveraging<br>Transient Energy Spectrum Analysis | ArXiv (2331-8422)                                      | Non-<br>Recognized | Non-<br>Impact<br>Factor |
| 65. | Dr Gulshan<br>Saleem                               | Assistant<br>Professor | MetaQAP - A Meta-Learning Approach for<br>Quality-Aware Pretraining in Image<br>Quality Assessment                      | ArXiv (2331-8422)                                      | Non-<br>Recognized | Non-<br>Impact<br>Factor |
| 66. | Dr Gulshan<br>Saleem                               | Assistant<br>Professor | SurveillanceNet: Spatio-temporal anomaly<br>identification in surveillance videos using<br>two-stream CNN and LSTM      | Multimedia Tools<br>and Applications                   | Non-<br>Recognized | Non-<br>Impact<br>Factor |
| 67. | Zupash Awais &<br>Ahmad Arsalan                    | Senior<br>Lecturer     | ISCC: Intelligent Semantic Caching and<br>Control for NDN-Enabled Industrial IoT<br>Networks                            | IEEE Access                                            | W                  | 3.6                      |
| 68. | Mohsin Akram                                       | Lab Instructor         | Uncertainty-aware diabetic retinopathy<br>detection using deep learning enhanced by<br>Bayesian approaches              | Scientific Reports                                     | W                  | 3.8                      |



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| 69. | 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 |
| 70. | Salman Muneer  | Lecturer           | Responsible CVD screening with a blockchain assisted chatbot powered by explainable AI                                                                                                                                                                | Scientific Reports                                           | W | 3.8               |
| 71. | 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               |
| 72. | 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 |
| 73. | Nazish Ashfaq  | Associate Lecturer | SkinSight: advancing deep learning for skin cancer diagnosis and classification                                                                                                                                                                       | Discover Computing                                           | W | Non-Impact Factor |
| 74. | 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               |
| 75. | 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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| 76. | 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               |
| 77. | Syed Atir Raza Shirazi     | Lecturer  | Advancing Early Blight Detection in Potato Leaves Through ZeroShot Learning                                                | Journal of Imaging                                        | W              | 3.3               |
| 78. | Syed Atir Raza Shirazi     | Lecturer  | Recent Advances in Machine Learning Models for Antiviral Peptide Prediction                                                | VAWKUM Transactions on Computer Sciences                  | Y              | Non-Impact Factor |
| 79. | Dr. Hafiz Mahfooz Ul Haque | Professor | Semantic Knowledge Based Reinforcement Learning Formalism for Smart Learning Environments                                  | Computers, Materials & Continua                           | W              | 1.7               |
| 80. | Dr. Hafiz Mahfooz Ul Haque | Professor | Optimizing Patient Monitoring with Reinforcement Learning Based Context-Aware Healthcare Formalism                         | COMPUTACION Y SISTEMAS                                    | X              | Non-Impact Factor |
| 81. | 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 |
| 82. | Dr. Sarwar Ehsan           | Professor | Numerical Analysis of Lassa Fever Epidemic Model                                                                           | Warisan Journal of Mathematical Sciences and Engineering  | Non-Recognized | Non-Impact Factor |
| 83. | 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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| 84. | Muneeb Ali Muzaffar | Lecturer            | Harnessing Machine Learning for Predictive Maintenance in IoT-Based Smart Manufacturing Environments                                     | UMT Artificial Intelligence Review                           | Y | Non-Impact Factor |
| 85. | 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               |
| 86. | 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 |
| 87. | 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 |
| 88. | Malik Junaid Aziz   | Principal Lecturer  | A Design-Oriented Classification of Microservice Smells                                                                                  | UCP Journal of Engineering & Information Technology          | Y | Non-Impact Factor |
| 89. | Malik Junaid Aziz   | Principal Lecturer  | Microservice Antipatterns: Causes, Detection, and Refactoring Challenges                                                                 | UCP Journal of Engineering & Information Technology          | Y | Non-Impact Factor |
| 90. | 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               |
| 91. | 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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| 92. | Mohsin Akram | Lab Instructor | Uncertainty-aware diabetic retinopathy detection using deep learning enhanced by Bayesian approaches | Scientific Reports | W | 3.8 |
|-----|--------------|----------------|------------------------------------------------------------------------------------------------------|--------------------|---|-----|