

COMSYS 2025::List of Accepted Papers of Round 1

Paper ID	Paper Title
1	LoopBERT: Hierarchical Transformer model for ChIP-seq binding peaks and CTCF-mediated chromatin loops prediction
2	Kubernetes Scaling: A Comprehensive Review of Scalability in Kubernetes
3	Blockchain-based Watermarking Approach for Securing E-healthcare Data
4	Machine Learning-Driven Analysis for Fetal Health Classification Using CTG Data- A Survey
5	Enhanced Feature Extraction for Brain Tumor Detection in MR Images Using a Modified Scale-Invariant Feature Transform (SIFT)
7	An improved Alzheimer's disease identification from FastSurfer, contour detection based ROI extraction and MRI scan images
11	AI-Powered Medical Chatbot with ECG Analysis and Lung Cancer Detection using CNN
13	FedSC: Byzantine Node Detection in Federated Learning using Spectral Clustering
22	VEHICLE ACCIDENT DETECTION AND REPORTING SYSTEM
27	Prediction of chromatin loops in human genome using deep neural networks at the megabase scale
29	SIPLM: A language model for predicting human protein self interaction
34	Intelligent Search and Rescue: A Deep Learning Approach with Predictive Filtering
35	Smart Agriculture and Next-Gen Sustainability: Harnessing Big Data and Machine Learning for Carbon Sequestration Prediction with Blockchain-Powered Carbon Credit Trading
36	Energy-Aware and Survivability-Optimized Multipath Routing for SDM-EONs: The EEEAM-RSCA Heuristic
37	CipherCanvas: Transforming Text into Unbreakable Visual Hashes
38	A Review of Deep Learning Techniques for Ovarian Cancer MRI Detection and Classification
40	BowelRCNN: Region-based Convolutional Neural Network System for Bowel Sound Auscultation
41	Tabby coding assistant code quality evaluation
43	Optimizing ER Biomarker Expression Classification with Hybrid Transformers: Multi-Color Space Ensemble and Fusion Approach
45	An Intelligent Clinical Decision Support System for Heart Disease Diagnosis using Machine Learning
46	A Multi-Device Multi-Position (MDMP) Smartphone Sensing Dataset for Human Activity Recognition
47	Towards Bridging SHAP and Counterfactual Explanations: A Dynamic Aggregation Approach
48	GCNN: Designing efficient CNN using genetic algorithm for biosignal classification
49	Radiation Characteristics from The Slots Etched in X-Band Rectangular Waveguide
50	Real-Time Sign Language Translation to American English with different YOLO models
51	A Fuzzy Clustering and Association Rule-based Framework for Understanding Cluster-specific Vulnerabilities in Epidemic Modeling
52	BERTRetrax: A Transformer-Augmented Pipeline for Retraction Detection in Scholarly Articles
53	Sound Event Detection using YOHO and Bottleneck Attention

54	Comparative Analysis of Machine Learning Algorithms for Early Detection of Lung Cancer.
55	Learning to Decide: Reinforcement Learning in Robotics and Autonomous Technologies
56	TASKBOT: A Gen AI Solution for Task Management
57	From Sensors to Survival: Mimicking a Non-Invasive System for Stroke Risk Stratification
58	F-ANcGAN: An Attention-Enhanced Cycle Consistent Generative Adversarial Architecture for Synthetic Image Generation of Nanoparticles
60	Brain Tumor Detection by Hybrid Quantum Classical Machine Learning via Thermal Imaging
61	Evaluating the Effectiveness of Transfer Learning and Pre-trained Language Models for Low-Resource Khasi Machine Translation
62	Incremental Class Detection using Unsupervised Techniques after Outlier Filtering
63	Meta-analysis of RNA-seq gene fusion detection tools: performance and variability across benchmarks
64	Toxic Nanoparticles Classification using Novel data augmentation and Artificial neural network
65	Overcoming Data Imbalance in Molecular Profiling--A Machine Learning Approach for Drug Prediction
68	Development of a Wearable fNIRS System for Non- invasive Cerebral Oxygenation Monitoring
69	Evaluating Suppression Index as a Cognitive Marker: Insights from Visual Search Tasks for Alzheimer's Assessment and Intervention
71	Improving Neural-Based Heuristics for 2D Strip Packing through Local Search in Heuristic Space
72	Automated Glaucoma Detection on Retinal Fundus Images using Deep Learning
73	Multiple Sclerosis Detection using Machine Learning
76	Enhanced Soil Fertility Classification Using ACO-Optimized XgBoost and Explainable AI
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