ReACS 2025 Conference Program Schedule (Tentative)
Day-1 (19/12/2025)

Technical Sessions: Slot 1

Track: Vision Computing   **Session Chairs:** Dr. Debanjan Sadhya, Dr. Laxmi Shrivastava
Timing: 12:30 PM to 02:00 PM   **Venue:** LT-1, 108

Session: 1A

Paper ID	Paper Name
290	Deep Learning for Skin Disease Classification Using Smartphone Images and Clinical Metadata
365	Investigation of InceptionV3 architecture-based feature extraction and different classifiers for binary classification of Pneumonia
958	Sound Event Detection using YOHO and Bottleneck Attention
70	Advances in Neuroimaging Techniques for Detection and Monitoring Intracranial Hemorrhage

Session: 1B

Paper ID	Paper Name
226	American Sign Language Recognition Using Deep Learning for Static Gesture Classification
228	Method Noise Filter based Multi focus Image Fusion Using CNN
301	Optimizing EdgeML Image Denoising with PnP-ADMM, Quantization, and Pruning
676	Automated Segmentation of Unruptured Intracranial Aneurysms from TOF-MRA using Generative Adversarial Networks

Track: Vision Computing   **Session Chairs:** Prof. K V Arya, Prof. Shashikala Tapaswi
Timing: 12:30 PM to 02:00 PM   **Venue:** LT-1, 106

Session: 2A

Paper ID	Paper Name
406	Real-Time Proctoring System for Online Examinations Using MediaPipe Framework
537	Image Captioning with Gated Fusion Transformer and Dynamic Encoder Adaptation
445	Video Retrieval Using GAT Enhanced CLIP Model

Session: 2B

Paper ID	Paper Name
582	Framework for Gym Posture Estimation using MediaPipe and OpenCV
607	Enhanced Whale Optimization Algorithm Integrated with Deep Learning-Based Edge Detection for Improved Convergence
654	Real-Time Analog Gauge Digitization Using 3D SegFormer and Physics-Guided Neural Rendering
987	LexiBoost: AI-Powered Automated Essay Scoring System with Comparative Model Analysis

Track: AI and Data Science   **Session Chairs:** Dr. Deepak Kumar Dewangan, Dr. Amrendra Singh Yadav
Timing: 12:30 PM to 02:00 PM   **Venue:** LT-1, 107

Session: 3A

Paper ID	Paper Name
150	Predictive Analytics for Youth Mental Health Leveraging ML to Identify Early Signs of Depression and Sleep Disorder
275	Deep Spectrogram-Based EEG Decoding of Visual Stimuli Using a Novel CNN Architecture
276	Dynamic Risk Stratification in ICU Sepsis: A Deep Reinforcement Learning Approach Using Synthetic Data
269	Comparative Analysis of Metaheuristic Algorithms for Multiple Sequence Alignment of rpoB Genes

Session: 3B

Paper ID	Paper Name

282	Forecasting with Open-AI Transformer Model S and P 500 Index
288	Optimized ADMET-Driven Molecular Design Using GRU-GCN Architecture with Multi-Objective Optimization
293	Comparative Analysis of Deep Learning Models for Skin Cancer Detection
274	Retrieval Augmented Generation based Explainable Fact-Checking using Knowledge Graphs
311	Adaptive Personalization in Federated Learning via Feature Subtraction and Generative Decoupling

Track: AI and Data Science   **Session Chairs:** Dr. Vivek Tiwari, Prof. Pramod Kumar Singh
Timing: 12:30 PM to 02:00 PM   **Venue:** LT-1, 207

Session: 4A

Paper ID	Paper Name
335	Designing a Framework for Deepfake Text Detection using Multi Model Ensembling Techniques
341	Ensemble-Based Diabetic Retinopathy Detection Using CNN, Random Forest, and AdaBoost
424	Brain Tumor Classification from MRI Scans Using Transfer Learning and Hybrid Deep Learning Models
432	An Adaptive Multimodal Approach for Social Media Sentiment Analysis Using Vision-Language Transformers

Session: 4B

Paper ID	Paper Name
529	Hierarchical BiLSTM with Attention for Text Summarization
549	Thermal Feature-Based Subclinical Mastitis detection in cattle using Support Vector Machine
414	Leveraging Deep Learning for Nutritional Profiling: A Comparative Analysis of EfficientNetB0, MobileNetV2, and ResNet50 for
415	Cross-Lingual Commonsense Reasoning using XLM-R

Track: Emerging Computing Technologies and Systems   **Session Chairs:** Dr. Manik Chandra and Dr. Avadh Kishor
Timing: 12:30 PM to 2:00 PM   **Venue:** LT-1, 208

Session: 5A

Paper ID	Paper Name
283	A Multistage Pipeline for Generating Symbolic Music with Deep Learning Architectures
305	Predicting Droughts Smarter: How We Built an End-to-End MLOps Pipeline
618	Video Game Addiction, Mental Health, and Social Well-being through Structural Equation Modeling
678	A Hybrid Identity Authentication System using Deep Learning for Biometric and Facial Recognition
972	A UTAUT Analysis of Mobile Banking Adoption in India's Next-Gen Digital Services
983	AI Integration & Its Dual Impact on Economic Growth and CO2 Emissions

Technical Sessions: Slot 2

Track: Vision Computing   **Session Chairs:** Dr. Sonali Agrawal, Dr. Narinder Singh Punn
Timing: 03:00 PM to 04:30 PM   **Venue:** LT-1, 108

Session: 6A

Paper ID	Paper Name
947	VitraFit- AI-Powered Vision for Smarter Fitness
957	Semantic-Aware and Geometry-Consistent Instant3D for Text-Driven Anatomical Model Reconstruction
1003	A Hybrid ResNeXt-101 & LSTM framework for Spatiotemporal Deepfake Detection in Video Sequences
319	A Hybrid Deep Learning Model for Image Dehazing and Object Detection to Enhance Autonomous Vehicle Navigation

Session: 6B

Paper ID	Paper Name
890	Realistic and Lightweight Driver Drowsiness Detection Using MobileNetV2 Features and Logistic Regression with Noise-Robust
921	Deep Learning with Vision Transformers for Classifying Intracerebral Hemorrhage in CT Images

1018	Deep Learning-Based Multi-Angle Classification of Tree Species from UAV Images

Track: Cybersecurity and Forensics   **Session Chairs:** Dr. Saumya Bhadauria, Dr. Nikhil Tripathi
Timing: 03:00 PM to 04:30 PM   **Venue:** LT-1, 106

Session: 7A

Paper ID	Paper Name
37	An Ensemble Voting Model for Phishing Website Detection Using Machine Learning Algorithms
346	Posture Management in Zero Trust Container Framework
347	Audit and Compliance in Zero Trust Container Framework
372	Authazon: Authorization of Amazon Data using a Category Based Access Control Model

Session: 7B

Paper ID	Paper Name
951	Secure Key Association, Forger Identification and Dealer Forgery Detection for a (t,n) Threshold Setup
393	FS-ProtoNet: Enterprise Network Security using Few-Shot Learning with Prototypical Networks
564	Loan Eligibility Prediction: A Comparative Analysis using Machine Learning Algorithms
776	Neuro-Fuzzy IDS with MRMR Feature Selection and Adaptive Ensemble Correction

Track: AI and Data Science   **Session Chairs:** Dr. Shiho, Dr. Amrendra Singh Yadav
Timing: 03:00 PM to 04:30 PM   **Venue:** LT-1, 107

Session: 8A

Paper ID	Paper Name
376	Smart Crop Health Monitoring: Automated Detection of Potato Leaf Diseases
398	Multi-Label Classification via Sparse Twin Extreme Learning Machine
457	Enhancing Pairs Trading with Graph Neural Network-Based Pair Selection
568	Comparative Evaluation of YOLOv8 Variants on Aerial Object Detection with DOTAv1.5

Session: 8B

Paper ID	Paper Name	
581	Logistic Regression Optimized with Gradient Descent and Expectation-Maximization for Heart Disease Prediction	
617	Evolutionary State and Dual Sub-Swarm Assisted Particle Swarm Optimization for Image Thresholding Problem	
626	A LLM-Powered Approach for Generating Meeting Minutes from Audio Conversations
660	EmpaAI: Intelligent Query-Based Mental Health Assistance

Track: AI and Data Science   **Session Chairs:** Prof. K V Arya, Dr. Shyam Singh Rajpoot
Timing: 03:00 PM to 04:30 PM   **Venue:** LT-1, 207

Session: 9A

Paper ID	Paper Name
123	Thyroid Lumps Detection in Ultrasound Images Utilizing Multi-View Deep Learning Approach
321	WBPA-QA(Water Body Property Analyzer for Quality Assessment)
358	Water Quality Classification Using LightGBM: A Machine Learning Approach on a Large-Scale Dataset
367	Leveraging Siamese Neural Network Architectures for the Detection and Classification of Zero-Day Botnet Network Traffic Analysis
391	Electrolyte Imbalance Detection via ECG Using Machine Learning and Deep Learning Approaches– A Comparative Study

Session: 9B

Paper ID	Paper Name
442	A Graph-Based Method to Reveal Communities and Influential Products from Reviews through Stylometric Analysis
551	Yoga Pose Detection and Classification using Advanced Machine Learning Models

| 561 | A PSO-Optimized CNN-BiLSTM Model for Enhanced Gesture Classification from Multichannel Surface EMG Signals |
| 611 | A Novel Hybrid Framework for Day-Ahead Load Forecasting Integrating CBAM, TCN, and XGBoost for Developing Regions |

Track: Computer and Software Systems   **Session Chairs:** Prof. Pramod Kumar Singh, Dr. DongShik Kang
Timing: 03:00 PM to 04:30 PM   **Venue:** LT-1, 208

Session: 10A

Paper ID	Paper Name
5	Efficient Personalized Recommendation Systems Using Graph Databases: Techniques, and Sustainable Practices
152	Overengineering BRC: Distributed-System Solution for Automating Compute-Heavy Data-Processing Competitions
362	Design and Implementation of an Advanced Continuous Monitoring System for Real-Time Performance Analytics
749	A Posture-Based System for Student Concentration Estimation
757	Development of Big Data Visualization Platform Integrating Medical, Air Quality, and Meteorological Data
932	Fork vs Pthreads: A Quantitative Microarchitectural Comparison for Real-Time CPU-Based ML Inference

Day-2 (20/12/2025)

Technical Sessions: Slot 3

Track: Cybersecurity and Forensics   **Session Chairs:** Prof. Shashikala Tapaswi, Dr. Neha Agrawal
Timing: 09:30 AM to 11:00 AM   **Venue:** LT-1, 108

Session: 11A

Paper ID	Paper Name
233	Netra: An AI-Powered Cybercrime Reporting and Analysis System
675	Secure Log Ingestion and Visualization Using Dockerized Graylog with Multiple Log Shippers
263	Financial Data Security in QR Codes Using Steganography and Digital Signatures
547	A Sustainable Model of Security Automation: Approach and Analysis
588	AI-Driven Deepfake Detection

Session: 11B

Paper ID	Paper Name
670	Enhancing Credit Card Transaction Security Using Supervised and Unsupervised Machine Learning Techniques
685	Real-Time Container Threat Detection and Response using Falco, VirusTotal and Talon
873	Enhanced cyber attack detection with IDS using jaya optimizer and smote ENN
948	The Alchemy of Assurance: Foundational Logics in Security and Privacy

Track: AI and Data Science   **Session Chairs:** Dr. Vivek Tiwari, Dr. Santosh Singh Rathore
Timing: 09:30 AM to 11:00 AM   **Venue:** LT-1, 106

Session: 12A

Paper ID	Paper Name
129	Recognition of Parkinson's Disease Utilizing Machine Learning
139	Image Description Generator for Visually Impaired Individual
165	Mango Variety Recognition: Improving Image Based Classification for Quality Control
197	Human Activity Recognition Based on a Hybrid Attention and TCN Model With Sensor Fusion

Session: 12B

Paper ID	Paper Name
262	Hierarchical Deep Learning Framework for Robust Lung Disease Prediction through Chest X-rays
277	A Comparative Study on Subgraph Mining Approaches for Parkinson's Disease Detection Using GCN

289	Smart Agricultural Information Retrieval through Machine Learning-Driven Query Expansion and Semantic Knowledge Graphs
344	Auditing Chain-of-Thought Reasoning via Perturbation-Based Attribution

Track: AI and Data Science **Session Chairs:** Dr. Deepak Kumar Dewangan, Dr. Saumya bhadauria
Timing: 09:30 AM to 11:00 AM **Venue:** LT-1, 107

Session: 13A

Paper ID	Paper Name
574	Leukocytes Classification using ViT from Blood Smear Image
578	Early Prediction of Student Dropout in Higher Education Using Machine Learning Models
585	KPPENet: A lightweight C2f and Self-Attention Based Network for Accurate Tiger Key Point Pose Estimation
612	Enhanced Diabetes Prediction on PIMA Indian Data: Leveraging SMOTE, Hyperparameter Tuning and Ensemble Learning

Session: 13B

Paper ID	Paper Name
616	Evaluating Hyper parameter Sensitivity Across Deep Learning Architectures
619	A Lightweight Detection Architecture for Real-Time Medical Pill Recognition
629	Next-Gen Satellite Imaging: Optimizing High-Resolution Remote Sensing with Advanced Stabilization and Data Processing
651	GaitStruct: Enhanced Human Recognition Through Edge Structure Detection in Visual Gait Analysis

Track: Communication Networks **Session Chairs:** Dr. Debanjan Sadhya, Dr. Smita Naval
Timing: 09:30 AM to 11:00 AM **Venue:** LT-1, 207

Session: 14A

Paper ID	Paper Name
177	Performance Evaluation of AI-based Algorithms for 5G RAN Slicing
377	Between the Cores: Covert Communication in Modern Cloud Workloads
488	UE Assisted Avoidance and Bypassing of False Negative Blacklisted Duplicate IMEIs in Mobile Communication Networks
490	SVD LMMSE Based Channel Estimation for Massive MIMO Systems

Session: 14B

Paper ID	Paper Name
189	Detecting Switch Spoofing Attacks in SDN using DPID Detection Mechanism
900	Cloud Service Insurance: an Actuarial approach to ensure quality delivery for Consumers
997	Secure Key Exchange and Wormhole Attack Prevention in Wireless Ad-Hoc Networks
1002	Blockchain-Based Tokenization and Management of Land Documents: A Decentralized Approach for Secure Ownership and Transfer

Track: Cyber Physical Systems and IoT **Session Chairs:** Dr. Chittaranjan Swain, Dr. Tanmay Behera
Timing: 09:30 AM to 11:00 AM **Venue:** LT-1, 208

Session: 15A

Paper ID	Paper Name
192	Object Detection and Sorting of Airport Baggage Using LabVIEW and Arduino with VISA Communication
285*	Automated Fire Detection and Suppression System for Railway Safety Using LabVIEW and GSM
323	Fish Farm Water Quality Monitoring System Using IoT
363	IoT-Integrated Geospatial Analytics for Automated Farmland Area Estimation Using Machine Learning

Session: 15B

Paper ID	Paper Name
559	Multi-Modal Edge Computing for Real Time Landslide Early Warning System
327	Smart IoT Emergency Response System with Real-Time Health Monitoring

356	An Integrated Approach to Smart Home Automation: Arduino-Based Amazon Alexa Controlled System
522	Smart Socket for Energy Efficiency

Technical Sessions: Slot 4

Track: AI and Data Science **Session Chairs:** Dr. Chittaranjan Swain, Dr. Vinod Kumar Jain
Timing: 03:30 PM to 05:00 PM **Venue:** LT-1, 108

Session: 16A

Paper ID	Paper Name
674	Quantifying Explanation Accuracy of LIME and SHAP Using Known Rule Based Feature Sets
875	Explainable Deep Learning for Multi-Class Skin Lesion Classification Using EfficientNetV2 and Grad-CAM++ Visualization.
894	Robust CLIP-Based Multimodal Fake News Detection in Noisy Social Media Environments
666	Hybrid Deep Learning Model Fusion for Enhanced Cervical Cancer Identification and Classification

Session: 16B

Paper ID	Paper Name
604	Recommendation System-based E-Commerce Website using Machine Learning Algorithms
727	Expert-Agnostic AI for Intelligent Tutoring Systems: Leveraging Self-Supervised Knowledge Mining
871	Predictive Modeling of Body Fat Percentage with Machine Learning Techniques
892	Adapter-Tuned IndicBERT for Hate and Source Detection in Code-Mixed Indic Texts

Track: Robotics and Autonomous Systems **Session Chairs:** Dr. W Wilfred Godfrey, Prof.Jaisingh Thangaraj
Timing: 03:30 PM to 05:00 PM **Venue:** LT-1, 106

Session: 17A

Paper ID	Paper Name
253	Evaluation of Sequential and Parallel Strategies for IRB 140 Dynamics through Symbolic Derivation and Numerical Simulation
539	Fail-Safe Lane Detection for CACC: Overcoming Attacks and Communication Loss with a Novel LiDaR-Only Approach
702	Implementation of Sensor-Fused Semi-Autonomous Rover for Safe Rescue Mission and Terrain Mapping
1009	Development of Novel Flight Modes for Underwater Drones

Session: 17B

Paper ID	Paper Name
610	Voronoi Heuristic-Driven Multi-Objective Optimization in Motion Planning
738	Smart IoT-Enabled Portable Health Monitoring System for Real-Time Medical Applications
896	Portable Artificial Intelligence-based Support System for Alzheimer's Disease with NLP on Raspberry Pi
909	SUFS: IoT Based Urban Crop Health and Irrigation System

Track: Computer and Software Systems **Session Chairs:** Dr. Santosh Singh Rathore, Dr. Sraban Kumar Mohanty
Timing: 03:30 PM to 05:00 PM **Venue:** LT-1, 107

Session: 18A

Paper ID	Paper Name
81	Enhancing Cybersecurity Risk Management Across the Software Development Lifecycle
298	DASIA: An Intelligent Examination System for Academic Institutions
679	Blockchain based Decentralized Application Connecting the Farmers and Consumers
723	Attention-based Enhanced Squeeze-Net for Cervical Cancer Screening

Session: 18B

Paper ID	Paper Name

782	Behind the Pixels: Unveiling Deepfake Videos
855	AI Agentic Systems with Microservices Architecture: Bridging Software Engineering Lifecycle Gaps in Large-Scale Applications
856	Performance Analysis of a Generalized Card Trick Algorithm: A Case Study in Algorithmic Optimization

Track: Emerging Computing Technologies and Systems   **Session Chairs:** Dr. Avadh Kishor, Dr. Manish Kumar
Timing: 03:30 PM to 05:00 PM   **Venue:** LT-1, 207

Session: 19A

Paper ID	Paper Name
159	Optimization Techniques with Numerical Simulation of Partial Differential Equation through RBF
169	Innovative Thermal Design: How Nature Is Redefining Heat Management in Supercomputing
208	A detailed overview of various techniques for Osteosarcoma detection in Blockchain system
620	A LightGBM-SHAP Framework for Accurate and Interpretable Crop Yield Prediction

Session: 19B

Paper ID	Paper Name
886	Optimizing Operational Costs in Resource-Limited Environments via Linear Programming
995	Application of Position-Specific Mutation Framework for Accurate and Efficient Severity Prediction in Hemophilia B
1012	Study on Quantum Image Representation Schemes: A Comparative Analysis