



4th International Conference on
Advanced Network Technologies and Intelligent Computing (ANTIC-2024)
19-21 December, 2024

Organized By:
Department of Computer Science, Institute of Science, Banaras Hindu
University, Varanasi, India

Time Schedule

Day	Time (IST)	Event	Venue
Day 1: 19-12-2024	10:00-10:20	Inaugural Function	Offline: Seminar Complex, Institute of Science, BHU. Online: Cisco WebEx
	10:20-11:20	Keynote Lecture-1: Prof. Dipankar Dasgupta	
	11:20-11:45	Tea Break	
	11:45-12:45	Keynote Lecture-2: Dr. Varun Kumar Ojha	
	12:45-14:00	Lunch Break	
	14:00-15:00	Keynote Lecture-3: Prof. Rajiv Ranjan	
	15:00-15:15	Coffee Break	
15:15 onwards	Workshop: Dr. Devki Nandan Jha		
Day 2: 20-12-2024	11:00-13:00	In-person/Physical Presentation	Offline: Annexure Building (LT1), Department of Computer Science, Institute of Science, BHU Varanasi.
	11:00-13:00	Online Presentation: Track 1 (Advanced Network Technologies) Track 2 (AI/ML) Track 3 (Data Science) Track 4 (Image Processing)	Online: Cisco WebEx
	13:00-15:00	Lunch Break	Department of Computer Science, Institute of Science, BHU Varanasi.
	15:00-17:00	In-person/Physical Presentation	Offline: Annexure Building (LT1), Department of Computer Science, Institute of Science, BHU Varanasi.
	15:00-17:00	Online Presentation: Track 1 (Advanced Network Technologies) Track 2 (AI/ML) Track 3 (Data Science) Track 4 (Image Processing)	Online: Cisco WebEx
Day 3: 21-12-2024	11:00-13:00	Online Presentation: Track 1 (Advanced Network Technologies) Track 2 (AI/ML) Track 3 (Data Science) Track 4 (Advanced Network Technologies)	Online: Cisco WebEx
	13:00-14:30	Lunch Break	Department of Computer Science, Institute of Science, BHU Varanasi.
	14:30-15:00	Valedictory Function	Offline: Annexure Building (LT1), Department of Computer Science, Institute of Science, BHU. Online: Cisco WebEx



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Schedule for Online Paper Presentation

20 December 2024

Track 1: Advanced Network Technologies

Session 1 (11:00-13:00 IST)

S. No.	Paper ID	Title
1	003	Ensuring Advanced ATM Security: A Formal Verification Approach with Event-B
2	018	Secure Communication in Fog Nodes through Quantum Key Distribution
3	042	Exploring Efficacy of Cryptographic Hash Functions SHA-256 and Blake2s against HashBoost
4	046	Deep Reinforcement Learning-Driven Path Optimization in Multi-UAV Edge Computing Systems
5	062	Decentralized Authentication and Data Security Scheme for IoMT devices and Patients using Blockchain, PUF and IPFS
6	113	Detection and Mitigation of IoT based DDoS Attack using Extended MUD enabled Device Profiling Techniques
7	116	Load Balanced Transaction Scheduling using Gaussian mixture model-ant colony optimization
8	125	Botnet-Based DDoS Attack: Automatic Detection, Mitigation, and Real-Time Traffic Filtering in Cloud Environments

Cisco WebEx Event Details:

Joining link: <https://bhu-meeting.webex.com/bhu-meeting/j.php?MTID=ma47fd36a9b6a6c5cf9288a7ff54982f6>

Meeting number: 2644 779 5207

Meeting Password: ANTIC2024





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Schedule for Online Paper Presentation

20 December 2024

Track 2: Artificial Intelligence/Machine Learning

Session 1 (11:00-13:00 IST)

S. No.	Paper ID	Title
1	032	Comprehensive Water Quality Analysis and Prediction Using Ensemble Machine Learning Models
2	080	Integration of Multi-Feature Analysis with Lightweight CNN Model for Heart Sound Classification.
3	085	Vaccine Sentiment Analysis: A Twitter Study using NLP and ML approach.
4	091	Interpretable Liver Fibrosis Classification Using 1D-CNN
5	092	Software Defects Prediction using Generative Adversarial Network based Data Balancing
6	148	Artificial neural networks with soft attention: Natural language processing for phishing email detection optimized with modified metaheuristics
7	162	Enhancing Security in Software-Defined Networks: A Machine Learning-Driven Hybrid Intrusion Detection System with Optimized Feature Selection

Cisco WebEx Event Details:

Joining link: <https://bhu-meeting.webex.com/bhu-meeting/j.php?MTID=m569cba19002d6df8fa1fe85bb99a5faf>

Meeting number: 2640 727 1842

Meeting password: ANTIC2024





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Schedule for Online Paper Presentation

20 December 2024

Track 3: Data Science

Session 1 (11:00-13:00 IST)

S. No.	Paper ID	Title
1	034	Efficient Sparse Tensor Core Networks for Real-Time Insect Classification in Agriculture
2	068	Deep-MFR: A Deep Learning Ensemble Approach for Improved Masked Face Recognition
3	071	Reduced Kernel Principal Component Analysis approach for Microarray Spot Classification
4	072	Detection of Vitiligo using Ensemble Learning
5	090	Impact of Virtual Reality on Cultural Heritages: Development of Mobile VR Tour of the Museum Site of Chandigarh, India
6	111	Integrating Optimized CNN and Deep CNN Model for Enhanced Maize Plant Leaf Disease Classification and Prediction Systems
7	139	Lung Region Segmentation from Chest-Radiographs Using EfficientNetB7
8	187	Process for Evaluating the Content of Forms for the Evaluation and Validation of Quality Assurance and Control Frameworks in Data Science Projects

Cisco WebEx Event Details:

Joining link: <https://bhu-meeting.webex.com/bhu-meeting/j.php?MTID=m56be9a3fd4340347e610aab8f8d24b7b>

Meeting number: 2643 356 8935

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20 December 2024

Track 4: Image Processing

Session 1 (11:00-13:00 IST)

S. No.	Paper ID	Title
1	048	Detection model for Pulmonary TB on Augmented X-ray Images Enhanced through Histogram Equalization
2	088	COMPUTER-AIDED DIAGNOSTIC SYSTEM FOR ALZHEIMER'S DISEASE USING 3D MRI IMAGES
3	153	Reddit Sentiment Analysis Using AWS Services
4	180	A Novel Approach to Handle Imbalanced Code-Mixed Languages Using SMOTE-ENN during Stratified Cross Validation
5	235	Fake News Detection Using Large Language Models
6	240	Lunar Crater Detection using Customized YOLOv8 model
7	257	Exploring the Use of Social Robots as a Game Associate in the Health Sector: A Systematic Review

Cisco WebEx Event Details:

Joining link: <https://bhu-meeting.webex.com/bhu-meeting/j.php?MTID=m8400c8dc97dcd75b9797ae154228aff0>

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Track 1: Advanced Network Technologies

Session 2 (15:00-17:00 IST)

S. No.	Paper ID	Title
1	209	Optimizing Cost Overhead in Low TPS Microservices with frequent Writes to Storage with Small Data Size
2	218	Designing A Smart Healthcare IoT System for Precise Fall Detection in Older Adults Using Multi-Sensor Data Fusion
3	221	Securing Pharmaceutical Supply Chains with Ethereum Blockchain: A Model for Counterfeit Prevention and Transparency of Drugs
4	236	A Hybrid Algorithm with Fuzzy Logic for Population Diversity Maintenance of Genetic Algorithm
5	239	IoT - enabled Tool for Static and Dynamic Analysis of Hand Strength
6	246	Decentralized Defences from Federated Learning for Ethereum Phishing Detection
7	265	Deep Multi-time Visualization and Analytics for E-commerce Platform
8	275	Lightweight Distributed Ledger Technology and Consensus Algorithms for D2D Communication

Cisco WebEx Event Details:

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Track 2: Artificial Intelligence/Machine Learning

Session 2 (15:00-17:00 IST)

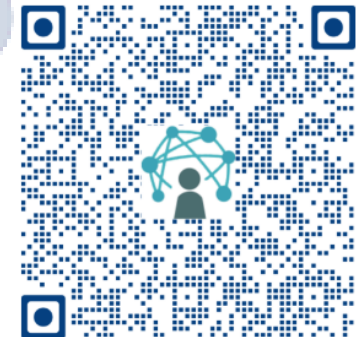
S. No.	Paper ID	Title
1	358	Priority-Based Weighted Constrained Crowd Judgement Analysis with Quantum Genetic Algorithm
2	205	Analysing the variation between Univariate forecasting and Multivariate forecasting using macroeconomic factors, for stock price prediction
3	253	Machine Learning Based Voltage Prediction with Various Levels of pH in IoT Environment
4	274	Financial Decision Support System for Small and Medium-sized Enterprises
5	287	Learning to Integrate Dynamic Knowledge for Enhanced Response Generation in Multi Domain Dialogue System
6	301	Balancing Accuracy and Safety in AI: A Novel Adversarial Training Approach
7	333	AI-Powered Reverse Logistics: A Pathway to Sustainable Supply Chains
8	348	Data to Decisions: A Computational Framework to Identify Skill Requirements from Advertorial Data

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Schedule for Online Paper Presentation

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Track 3: Data Science

Session 2 (15:00-17:00 IST)

S. No.	Paper ID	Title
1	190	Real-Time Automated Pothole Detection and Localization with Deep Learning and Geolocation Integration for Improved Road Safety and Maintenance
2	211	Optimizing Vehicle Emissions: Identifying High-Impact Vehicles and Exploring Sustainable Fuel Options
3	212	Sign language recognition using convolutional neural network
4	256	Optimized LeNET based CNN and Convolutional BLSTM with He Initialization for Character-Level Classification in Tal-Patra Manuscripts
5	277	Adaptive Backpropagation Algorithm using N-Sigmoid and N-Weight Updation Rule for 3D LiDAR Point Cloud Compression
6	312	Enhanced Multilingual Sentiment Analysis Using Hybrid CNN-GRU Deep Learning Architecture
7	325	Fine-tuning and Efficacy Assessment of BERT-Based Models in Detecting Early Signs of Depression
8	379	Human Action Recognition using Mediapipe Holistic Keypoints: A Deep Learning Approach

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Track 4: Image Processing

Session 2 (15:00-17:00 IST)

S. No.	Paper ID	Title
1	273	Evaluating the Efficiency of FSL Models in the Diagnosis of Kyasanur Forest Disease
2	292	QUANTUM-ENABLED (QeSVM) FACIAL EXPRESSION IDENTIFICATION OF AUTISTIC CHILDREN
3	297	High-Capacity Coverless Steganography Using Pixel Gradient Analysis
4	308	Identification of Traditional Medicinal Plant Leaves Using an effective Deep Learning model and Self-Curated Dataset
5	372	XcUNet for Skin Lesion Segmentation followed by Clustering based Post-processing
6	378	VisionLingua: Empowering Multimodal Understanding with Cutting-Edge Language Models
7	396	Fine-Tuning RetinaNet for Few-Shot Fruit Detection

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Joining link: <https://bhu-meeting.webex.com/bhu-meeting/j.php?MTID=m8400c8dc97dcd75b9797ae154228aff0>

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21 December 2024

Track 1: Advanced Network Technologies

Session 3 (11:00-13:00 IST)

S. No.	Paper ID	Title
1	291	IoT System intrusion detection with XGBoost optimized by modified metaheuristics
2	322	Spammer Groups Detection in Online Reviews: A Novel Approach Using FP-Growth and Behavioral Features
3	329	Encoder - Based Trusted Routing Algorithm for Underwater Wireless Sensor Networks
4	330	Development of Blockchain Integrated Agricultural Land Lease Framework with a Voting-Based Consensus Protocol Using Event-B
5	357	A Post Quantum Key Policy Attribute Based Encryption Scheme from Code Based Cryptographic Assumptions
6	365	Edge AI to Edge Robotics: Enhancing Human Pose Estimation with High-Performance TPU Computing
7	367	Task scheduling in distributed real-time systems using hybrid model based on ACO-GA
8	383	Ameliorated Standardization Framework for Post-Quantum Cryptographic Algorithms

Cisco WebEx Event Details:

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21 December 2024

Track 2: Artificial Intelligence/Machine Learning

Session 3 (11:00-13:00 IST)

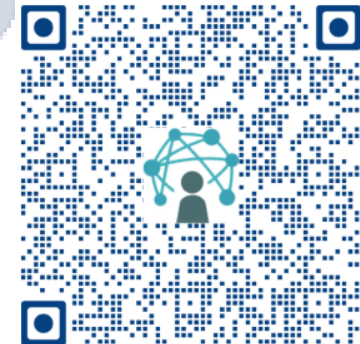
S. No.	Paper ID	Title
1	201	Entropy based Embedded Unsupervised Feature Selection
2	368	DDoS Attack Detection Using Explainable AI in Machine Learning
3	404	Smart Street: AI-Powered Traffic Flow Enhancement with Adaptive Signal Control
4	452	Detecting AI-Generated Text Using Fine-Tuned Transformers: A Study on Academic Integrity
5	459	MoReco: AI Model Recommendation and Optimization for B5G Networks
6	481	Mamba based conditional GAN for optical cloud removal of satellite images
7	486	Adaptive Resource Management in Massive Machine-Type Communications Using Reinforcement Learning
8	500	Advanced Machine Learning and Features based Data Analytics of Electricity Consumption in USA and India
9	502	Cross-Domain Adversarial Attacks and Defense Mechanisms in Multimodal Neural Networks

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Track 3: Data Science

Session 3 (11:00-13:00 IST)

S. No.	Paper ID	Title
1	334	Data Augmentation of Gujarati Texts for Sentiment Analysis
2	346	Resource-Aware Arabic LLM Creation: Model Adaptation, Integration, and Multi-Domain Testing
3	393	Fault Detection in Semiconductor Manufacturing Using Advanced Machine Learning Techniques with Interpretability
4	420	A Hybrid Machine Learning Approach for Accurate Milk Quality Classification
5	421	Designing VoiceGPT Chatterbox Concierge: A Personal AI Assistant for Daily Services using Supervised Machine Learning Based Speech Recognition Techniques
6	430	Enhancing Customer Segmentation and Behavior Prediction through Machine Learning and Medium Gaussian SVM
7	467	File Prefetching Accuracy Enhancement using Deep Learning Approaches
8	484	A hybrid quantum machine learning model for multi-class classifier

Cisco WebEx Event Details:

Joining link: <https://bhu-meeting.webex.com/bhu-meeting/j.php?MTID=m56be9a3fd4340347e610aab8f8d24b7b>

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Schedule for Online Paper Presentation

21 December 2024

Track 4: Advanced Network Technologies

Session 3 (11:00-13:00 IST)

S. No.	Paper ID	Title
1	278	Evaluating the Effectiveness of Machine Learning Algorithms for Network Intrusion Detection
2	399	Integrating IoT and Machine Learning for Human Fall Detection and Activity Monitoring
3	419	A Novel Protocol for Authentication and Group Key Distribution for Secure Data Transmission in VANET Environment Using Theory of Number
4	432	Revolutionizing Urban Mobility: ZoomBikes
5	445	Lane Detection in Autonomous Vehicles Using Unsupervised Machine Learning and Light Detection and Ranging
6	460	Predictive VM Placement Algorithm for Resource Optimization: Leveraging Deep Learning Forecasting and Resource Relationship Modeling
7	482	Analysis of Different Gravity Models to Determine Key Nodes in Social Networks
8	505	PUF-Based Ownership transfer using Blockchain

Cisco WebEx Event Details:

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Schedule for Offline Paper Presentation

20 December 2024

Session 1 (11:00-13:00 IST)

(Venue: Annexure Building (LT1), Department of Computer Science, Institute of Science, BHU Varanasi)

S. No.	Paper ID	Title
1	057	Comparing the Performance of Supervised, Unsupervised and Hybrid Learning on Medical Insurance Fraud Detection
2	100	CRNet: Convolutional Recurrent Network for Suspect Face Identification
3	144	EnigmaArt: Dual Image Encryption and Compression via Autoencoding and Pixel Conversion
4	185	Intelligent Seasonal Air Quality Prediction with Machine Learning Models: Enhancing Performance through Polynomial Regression and Bayesian Optimization
5	249	Deep Learning Techniques for Pneumonia Detection on Chest X-Ray Images
6	250	Maximum Independent Set using Hummingbird Optimization
7	300	Citation Based Scientific Document Summarization using Deep Learning
8	363	A Novel Efficient Approach for Feature Selection for Enhanced Performance in Breast Cancer Prediction



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20 December 2024

Session 2 (15:00-17:00 IST)

(Venue: Annexure Building (LT1), Department of Computer Science, Institute of Science, BHU Varanasi)

S. No.	Paper ID	Title
1	377	Exploratory Study on Different Transformer Models
2	380	Enhancing Box Type Solar Cooker Performance with Optimal Reflecting Sidewall Angles using Genetic Algorithm
3	386	Machine Learning for Waste-to-Energy: Optimization and Predictive Analytics
4	390	Enhanced Traffic Forecasting for Urban planning Using DeepWalk Embeddings and Spatio-Temporal Graph Ordinary
5	429	Improved Classification Techniques Using Convolutional Neural Networks for Rice Plant Disease Detection
6	446	Grapevine SDLC Model for Real-Time Fake News Classification
7	448	Secure Intelligence Development Lifecycle (SIDL) Model for Vulnerability Detection
8	503	Deep Feature Fusion of Local and Global Patterns for Early Detection of Lung Abnormalities in Chest X-Rays