

12th International CONFERENCE SMART-2023

System Modeling & Advancement in Research Trends

(IEEE Conference Record # 59791)

22-23 December, 2023

DAY -1

22 December 2023 (2:00 P.M-4:30 P.M)

Technical Session 1: Zoom Link for Online Presentation :

<https://us06web.zoom.us/j/82788472011?pwd=PYBWoKkQiY6HYmfxFEKw5OsOMj3vJi.1>

Meeting ID: 827 8847 2011

Passcode: 398729

| TECHNICAL SESSION | Paper ID | TITLE | |
|---------------------|----------|--|--|
| TECHNICAL SESSION 1 | 19 | Infrared image enhancement using Contrast Limited Adaptive Histogram Equalization and Denoising Convolution Neural Network | |
| | 150 | A COMPREHENSIVE STUDY ON THE CLASSIFICATION OF THE EDIBILITY OF MUSHROOMS | |
| | 228 | Music Recommendation System using Face Emotion Recognition | |
| | 229 | Driver Drowsiness Detection System Using Image Processing | |
| | 259 | Federated Learning for Mango Ripeness Classification: Evaluating Pre-Trained Deep Learning Frameworks | |
| | 337 | Enabling Precision Agriculture: A Federated Learning CNN Approach to Diagnosing Jackfruit Leaf Diseases | |
| | 338 | Agricultural Insights through Federated Learning CNN: A Case Study on Jackfruit Leaf Disease | |
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Technical Session 2: Zoom Link for Online Presentation :

<https://us06web.zoom.us/j/87165318915?pwd=fJ3iLzEs8zEmrEaWIB0IGrbRVZxZFu.1>

Meeting ID: 871 6531 8915

Passcode: 282579

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| | 352 | Improved Multi-Face Detection with ResNet for Real-World Applications | |
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| TECHNICAL SESSION 2 | 127 | Smartphone Usage Experience Impact of E-Health Services | |
| | 370 | Analysis of Personalized AI Assistant with Facial Recognition and Voice Representation | |
| | 386 | Fine-tuned Convolutional Neural Network Model for Wheat Leaf Disease Classification | |
| | 402 | U-Net Based Semantic Segmentation for Road Scene Understanding | |
| | 409 | Enhancing Toxoplasmosis Chorioretinitis Detection: A Hybrid ResNet-YOLO Classifier with Fitness Sorted-Shark Smell Optimization | |
| | 36 | Chromium Navigator Extension: Voice-activated assist for disabled | |

Technical Session 3: Zoom Link for Online Presentation :

<https://us06web.zoom.us/j/87801673029?pwd=JFyTZrmGFy3XHuZmA8dhrr2u3QIJ2i.1>

Meeting ID: 878 0167 3029

Passcode: 777431

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| TECHNICAL SESSION 3 | 492 | Comparative Analysis On Violence Detection using Yolov8 and ResNet | |
| | 69 | Exploring the Impact of AI and Machine Learning Algorithms on Engineering Education: A Comprehensive Analysis of Research Articles in the Journal of Engineering Education | |
| | 524 | Deep Neural Network-Based Fingerprint Reformation for Minimizing Displacement | |
| | 527 | Plant Disease Identification and Detection using Machine Learning Algorithms | |
| | 301 | Analysis of Image Matting Techniques used for generating Alpha-Matte | |
| | 82 | A Trust Secure Attacker Detection with upgraded Deep Learning-Assistance for SDN Networks | |
| | 450 | MLWs integrative operational matrix scheme for solving integro differential equations | |
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Technical Session 4: Zoom Link for Online Presentation :

<https://us06web.zoom.us/j/89301711022?pwd=YVOJ6Y8U6pgd17rwQn7FXcSVxoNII3.1>

Meeting ID: 893 0171 1022

Passcode: 645757

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| TECHNICAL SESSION 4 | 423 | Utilizing an Ensemble Classification Method to Assess the Severity of SQL Injection Attacks and XSS | |
| | 441 | Novel Hybrid Geometric Transformation Function to Safeguard LBS Data | |
| | 474 | A Review Of Detecting DDoS Attacks Based On Entropy Computation | |
| | 2 | Sculpting DistilBERT: Enhancing Efficiency in Resource-Constrained Scenarios | |
| | 6 | Sentiment Analysis of Bangla Song Comments: A Machine Learning Approach | |
| | 13 | Movie Recommendation System using Tf-idf Vectorizer and Bag of Words | |
| | 252 | Hybrid CNN-LSTM Model for Automated Violence Detection and Classification in Surveillance Systems | |
| | 514 | Predict the Heart Disease Using a Logistic Regression Classifier Algorithm | |

Technical Session 5: Zoom Link for Online Presentation :

<https://us06web.zoom.us/j/89404080916?pwd=Rlt5ZuiJn2nYajmSG7hVnABb7Ob5iS.1>

Meeting ID: 894 0408 0916

Passcode: 068608

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| TECHNICAL SESSION 5 | 361 | Audio Deepfake Detection Using Deep Learning | |
| | 429 | Impact of Social Media Influencer on Consumer Decision Making | |
| | 447 | Classification of covid-19 High-Risk Patients Using Machine Learning | |
| | 469 | Predicting software errors using Neural Networks | |
| | 482 | Jute Health Decoded: Severity Level Analysis through Federated Learning CNN | |
| | 416 | Advancement in SLAM Techniques and Their Diverse Applications | |

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| | 449 | Wavelet-Based Analysis of Fractional Electrical Circuit Models Using Orthonormal Lucas Wavelets | |
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DAY -2 23 December 2023 (10:00 A.M-12:30 P.M)

Technical Session 6: Zoom Link for Online Presentation :

<https://us06web.zoom.us/j/87165318915?pwd=fJ3iLzEs8zEmrEaWIB0IGrbRVZXzFu.1>

Meeting ID: 871 6531 8915

Passcode: 282579

| TECHNICAL SESSION | Paper ID | TITLE | |
|---------------------|----------|---|--|
| TECHNICAL SESSION 6 | 520 | Object Detection Its Progress and Principles | |
| | 522 | Database Knowledge Discovery Combining Cluster Analysis and Classification using Data Mining | |
| | 528 | A Study of the Unbalanced Image dataset for classification Problem | |
| | 302 | Unveiling AI Insights: Navigating COVID-19 with Machine Learning and Deep Learning | |
| | 4 | A Comprehensive Analysis of Environmental Parameters of Underwater Sensor Network | |
| | 39 | IoT Enhanced Trading Strategies for Gold Futures and Options | |
| | 124 | LEVERAGING MACHINE LEARNING ALGORITHMS FOR PREDICTIVE MAINTENANCE IN INTERNET OF THINGS (IOT) SYSTEMS | |
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Technical Session 7: Zoom Link for Online Presentation :
<https://us06web.zoom.us/j/87801673029?pwd=JFYtZrmGFy3XHuZmA8dhrr2u3QIJ2i.1>

Meeting ID: 878 0167 3029
 Passcode: 777431

**TECHNICAL
SESSION 7**

| | | |
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| 465 | Integrated Wireless Sensor Network and Machine Learning Algorithm based Forest Fire Detection System | |
| 498 | Practical coordination and aspect of IoT for smart cities and healthcare system | |
| 499 | Cultivating progress: an in-depth examination of IoT based sensor networks for agricultural aspects | |
| 510 | The Role of Fog Computing and IoT in WBAN: Enhancing Healthcare Efficacy | |
| 515 | Design and Implementation of an IoT-Based Smart Irrigation System for Optimized Water Management in Wheat Cultivation | |
| 516 | Enhancing Safety and Independence: A Smart Switch Solution for Elderly Individuals Living Independently | |
| 412 | A Quantitative Study Of Innovation-Driven Investment and Its Performance Management on Corporate Fiscal Returns using AI | |

Technical Session 08: Zoom Link for Online Presentation :
<https://us06web.zoom.us/j/89301711022?pwd=YVOJ6Y8U6pgd17rwQn7FXcSVxoNII3.1>

Meeting ID: 893 0171 1022
 Passcode: 645757

**TECHNICAL
SESSION 8**

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| 517 | Evaluating the Impact of Different Routing Protocols on VANET Performance | |
| 496 | A Framework for Building Blockchain Based Secured E-voting | |
| 513 | Leveraging Deep Learning Models and Ethereum Smart Contracts to secure EHR in HL7 Environment | |
| 438 | Cloud Computing: Algorithmic Appraisal by Response Time. | |
| 427 | Predicting a rise in Employee Attrition rates through the utilization of People Analytics. | |
| 401 | Improving Water Quality Prediction and Monitoring Using Machine Learning Algorithms | |
| 410 | Cultivating Customer Purchase Intent: Leveraging Machine Learning for Precise Predictions | |

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| TECHNICAL SESSION 9 | 518 | A Logistic Regression Based Credit Risk Assessment Using WoE Bining and Enhanced Feature Engineering Approach ANOVA and Chi-Square | |
| | 525 | Blockchain-Powered Decentralized Finance (DeFi): Transforming Financial Inclusion & Investment Landscapes | |
| | 17 | Design and Analysis of 18T Master-Slave Flip-Flop Circuit | |
| | 519 | Wheat Leaf disease detection using machine learning: A Review | |
| | 489 | Stock price prediction of AAPL stock by using machine learning techniques: A comparative study | |
| | 400 | MedAssistBot: AI Based Diabetes Prediction Tool for Assisting Novice Medical Practitioners | |
| <p>Technical Session 10: Zoom Link for Online Presentation : https://us06web.zoom.us/j/89404080916?pwd=Rlt5ZuiJn2nYajmSG7hVnABb7Ob5iS.1</p> <p>Meeting ID: 894 0408 0916 Passcode: 068608</p> | | | |
| TECHNICAL SESSION 10 | 479 | Concrete Compressive Strength Prediction based Web Application using Gradient Boosting based ML Ensemble: A Case Study | |
| | 480 | Optimization and Implementation of Concrete Compressive Strength Prediction Framework Using Artificial Intelligence Classifiers | |
| | 486 | Impact of Covid-19 on Current Electricity Market in Canadian Provinces and Its Optimal Solutions | |
| | 491 | Performance Analysis of Cloud Hypervisor Using Network Package Workloads In Virtualization | |
| | 501 | Bridging the Strawberry Cultivation Gap: Federated Learning CNN for Disease Detection | |
| | 504 | Strawberries at the Nexus of Tech: Federated Learning and CNN for Disease Severity Classification | |
| 460 | Meta-heuristic Based Stability Enhancement of Hybrid Energy System | | |
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DAY -2

23 December 2023 (2:00 P.M-4:30 P.M)

Technical Session 11: Zoom Link for Online Presentation :

<https://us06web.zoom.us/j/82788472011?pwd=PYBWoKkQiY6HYmfxFEKw5OsOMj3vJi.1>

Meeting ID: 827 8847 2011

Passcode: 398729

| TECHNICAL SESSION | Paper ID | TITLE | |
|----------------------|----------|--|--|
| TECHNICAL SESSION 11 | 175 | Integrating Bhagavad Gita in Modern Management: ISM of Organizational Factors & Communication Protocols for IIoT | |
| | 394 | Predictive ML for Educational Decisions | |
| | 422 | Fire Hawk Optimizer Algorithm for Optimal Allocation of Distributed Generation for Minimising Power Loss and Voltage Improvement | |
| | 454 | Optimal Unit Commitment and Generation Scheduling of Integrated power system with Plug-in Electric Vehicles and Renewable Energy Sources | |
| | 363 | A Multilingual Text to Speech Engine Hindi-English: Hinglish | |
| | 421 | Enhancing Recommender Systems to alleviate data sparsity and the Cold Start Problem | |
| | 505 | A Comparative Study for Monocot Remembrance Using VGG16, EfficientNet, InceptionV3, and ResNet50 on Accuracy and Response Time | |
| | 404 | Cardiovascular Disease Prediction and Prevention: Exploring Novel Techniques and Applications Using Machine Learning | |

Technical Session 12: Zoom Link for Online Presentation :

<https://us06web.zoom.us/j/87165318915?pwd=fJ3iLzEs8zEmrEaWIB0IGrbRVZXzFu.1>

Meeting ID: 871 6531 8915

Passcode: 282579

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| TECHNICAL SESSION 12 | 523 | A Linear Programming Approach to Optimize the Storage Capacity | |
| | 369 | YOLO-RS: An Efficient YOLO-Based Approach for Remote Sensing Object Detection | |
| | 487 | Deep Learning Approaches for Crowd Density Estimation: A Review | |
| | 526 | IP and IoT-Based Waterside Surveillance for Early Floods Alarming System | |
| | 455 | Student Performance Using Antlion Optimization Algorithm and ANN Regression | |
| | 483 | Diabetes Mellitus Diseases Prediction by Using Machine Learning | |
| | 521 | Multiclass Predictor and Diagnoses of Breast Cancer using Machine Learning | |
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Technical Session 13: Zoom Link for Online Presentation :

<https://us06web.zoom.us/j/87801673029?pwd=JFyTZrmGFy3XHuZmA8dhrr2u3QIJ2i.1>

Meeting ID: 878 0167 3029

Passcode: 777431

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| TECHNICAL SESSION 13 | 12 | Cardiovascular Disease and Diabetes Disease Prediction Using Machine Learning and Streamlit API | |
| | 61 | Optimization of Bioanalytical Liquid Chromatography - Tandem Mass Spectrometric Method for quantification of tazemetostat – an epithelioid sarcoma treatment drug in Human Plasma | |
| | 197 | Artificial Intelligence and Machine Learning in DrugDiscovery and Development | |
| | 234 | Liver Cancer Diagnosis with Lightweight Federated Learning using Identically Distributed Images | |
| | 249 | Next-Gen Cucurbit Disease Diagnosis: A Federated Learning CNN Approach | |
| | 331 | PolRam: Proposed Prediction Framework based on Pollen Outbreak & A Critical Review | |
| | 360 | A Novel Hybrid Machine Learning Approach for the Prediction of Renal Disease | |
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Technical Session 14: Zoom Link for Online Presentation :

<https://us06web.zoom.us/j/89301711022?pwd=YVOJ6Y8U6pgd17rwQn7FXcSVxoNII3.1>

Meeting ID: 893 0171 1022

Passcode: 645757

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| TECHNICAL SESSION 14 | 362 | Development of Web-based Novel Machine Learning Model using Boosting Techniques for Early Prediction of Diabetes in Indian Adults | |
| | 420 | S-ROID, an efficient methodology to extract deleted data from Android | |
| | 403 | Epileptogenic Foci Localization with Intracranial EEG Using Effective Connectivity Network Based on Phase Transfer Entropy | |
| | 408 | Enhancing Healthcare Analytics: A Multiclass Supervised Learning Approach Approach for Disease Classification | |
| | 411 | A Comprehensive Review of Machine Learning Techniques for Lung Cancer Detection | |
| | 413 | Brain tumour classification in MRI images using a BWT and SVM classifier | |
| | 435 | Innovations in CT Angiography Image Analysis: Machine Learning Methods for Plaque Segmentation | |
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Technical Session 15: Zoom Link for Online Presentation :

<https://us06web.zoom.us/j/89404080916?pwd=RI5ZuiJn2nYajmSG7hVnABb7Ob5iS.1>

Meeting ID: 894 0408 0916

Passcode: 068608

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| TECHNICAL SESSION 15 | 225 | Enhancing Network Security Against DDoS Attacks: An Analysis of OPNET Modelers | |
| | 506 | Heart Disease Prediction Using Enhanced Whale Optimization Algorithm Based Feature Selection With Machine Learning Techniques | |
| | 529 | GUI Testing Using Random Event-Based Test Cases | |
| | 306 | A Review: Medical Image Analysis Using Deep Learning Models | |
| | 319 | Brain Tumor Image Segmentation Based On Deep Neural Network (CNN, VGG-16 and RESNET-50) | |
| | 462 | Analysis of Optimization and conventional Algorithms using CloudSim in Cloud | |
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