

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (AI&ML)

Research Publications

CAY 2024-25(As per NBA)

S.No	Name of the Faculty	Title of the Paper	SDGs addressed	SCI/Scopus/Conference
1	Dr. B. Hanumanthu	Hybrid TDR-MI Based Wireless Sensor Network for Underground Water Pipeline Leakage Detection and Localization Using Pressure Residuals and Classifiers	SDG 6, SDG 9	SCI
2	Dr. B. Hanumanthu	Crop Disease Detection by Deep Joint Segmentation and Hybrid Classification Model: A CAD Based Agriculture Development System	SDG 2, SDG 9	SCI
3	Dr. A. Jothi Prabha	Artificial intelligence-enhanced terahertz metasurface biosensor for breast cancer biomarker detection	SDG 3, SDG 9	SCI
4	Dr. A. Jothi Prabha	Machine learning-enabled optimization of a graphene coated terahertz metasurface for isoquercitrin biosensin	SDG 8, SDG 9	SCI
5	Dr. A. Kiran Mayee	Enhancing swimming pool hygiene: A robotic approach to debris removal and water quality monitoring.	SDG 6	SCI
6	Dr. M. Sujatha	Cluster-based routing protocols through optimal cluster head selection for mobile ad hoc network	SDG 8, SDG 9	Scopus
7	Sai Rama Krishna Indarapu	A Machine Learning Framework For Predictive Waste Management Optimization In Smart Cities	SDG 6, SDG 11	Scopus
8	V. Prashanthi,	Innovative Machine Learning Strategies for Enhancing Cyber security Resilience in IoT Environments	SDG 9, SDG 11	Scopus

9	V. Prashanthi	Development of Advance Machine Learning (ML) Strategies for Enhanced Mobile Robot Control	SDG 9, SDG 11	Scopus
10	Dr. A. Kiran Mayee	A Comparative Analysis of Deep Learning Models in Diverse AI Healthcare Applications	SDG 3, SDG 9	Scopus
11	Dr. A. Kiran Mayee	Feature Dimensions of Artificial Intelligences Challenges and Techniques - A Survey.	SDG 9	Scopus
12	Dr. A. Kiran Mayee	Proposal of Enhancing Water Safety. An autonomous Robot for Drowning Prevention.	SDG 9, SDG 11	Scopus
13	Dr. A. Kiran Mayee	Enhanced Routing Protocol in Mobile Ad hoc Network for Improving the Performance.	SDG 8, SDG 9	Scopus
14	Dr. A. Kiran Mayee	Enhancing network lifetime in Wireless Sensor Networks using Hybrid Approach.	SDG 8, SDG 9	Conference
15	Dr. A. Jothi Prabha	An effective biometric medical image watermarking system designed for e-health application	SDG 3, SDG 9	Conference
16	Dr. A. Jothi Prabha	Cybersecurity using hybrid type model for classification through SCO optimization technique	SDG 9, SDG 11	Conference
17	B. Kalyan	Hybrid Quantum Computing and Deep Learning Approaches for Enhancing Wireless Communication Security	SDG 9, SDG 11	Conference
18	B Ramji	Trust Based Cooperative Secure Routing Protocols for Internet of Things (IoT)	SDG 9, SDG 11	Conference
19	Dr. K. Shivakumar	AVOA: Energy and Resource Aware Scheduling Through Cloud Environment	SDG 9, SDG 11, SDG 12	Conference
20	Dr. K. Shivakumar	TOA: Optimizing VM Failure Rate and Energy Consumption in Task Scheduling Through Cloud Fog Environment	SDG 9, SDG 11, SDG 12	Conference
21	V.Ramu	Real-Time Air Quality Monitoring with Edge AI and Machine Learning Algorithm	SDG 9, SDG 11, SDG 13	Conference

22	V.Ramu	Deep Learning Algorithms in DNA Sequencing: Transforming Genetic Testing and Analysis	SDG 3, SDG 9	Conference
23	V.Ramu	IoT-Enabled Precision Irrigation for Coconut Plantations: Enhancing Growth and Sustainability	SDG 2, SDG 9	Conference
24	V.Ramu	Improving Genetic Variant Calling Using Deep Convolutional Neural Networks and Ensemble Learning	SDG 3, SDG 9	Conference
25	E. Rajitha	Android Malware Detection on Imbalanced Data Using Deep Learning.	SDG 9, SDG 11	Conference
26	B.Rajitha	Federated Deep Q Network Models for Sustainable and Efficient Smart Agriculture	SDG 2, SDG 9	Conference
27	B.Rajitha	An Hierarchical Mechanism for Intrusion Detection in Fog Computing using Federated-Multiscale Echo State Network with Secure Encryption via Arnold Hashing	SDG 9, SDG 11	Conference

CAY 2023-24(As per NBA)

S.No	Name of the Faculty	Title of the Paper	SDGs addressed	SCI/Scopus /Conference
1	Ms. Hithasri	Crime Data Visualization and Forecasting Using SARIMA Algorithm	SDG 9, SDG 11	UGC
2	I. Sai Rama Krishna	Exploring human resource management intelligence practices using machine learning models	SDG 8, SDG 9	Scopus
3	Dr. S.Narasimha Reddy	Brain CT Image Processing Using U-Net Model with Data Augmentation for Detection of Ischemic and Haemorrhage Strokes	SDG 3, SDG 9	Scopus
4	Dr. B. Hanumanthu	Brain tumor image identification and classification on the internet of medical things using deep learning	SDG 3, SDG 9	Scopus
5	Dr. B. Hanumanthu	Deep Learning Algorithms for Speech Emotion Recognition with Hybrid Spectral Features.	SDG 3, SDG 9	Scopus
6	Dr. B. Hanumanthu	Assessing the Impact of Migration from SOA to Microservices Architecture.	SDG 9	Scopus
7	Dr. A. Kiran Mayee	Evolutionary Strategies for Parameter Optimization in Deep Learning Models	SDG 9	Scopus
8	Dr. A. Kiran Mayee	Enhancing Computer Science: Exploring the Power of Decentralized Blockchain Techniques in IoT Security and Privacy	SDG 9, SDG 11	Scopus
9	Dr. A. Kiran Mayee	An Analytical Study of Global Wild Fires.	SDG 15	Conference

CAY 2022-23(As per NBA)

S.No	Name of the Faculty	Title of the Paper	SDGs addressed	SCI/Scopus/Conference
1	Dr. S. Narasimha Reddy	Deep Active Contour based Capsule Network for Medical Image Segmentation	SDG 3, SDG 9	SCI
2	Dr. S. Narasimha Reddy	Intracranial Hemorrhage Subtype Classification using Learned Fully Connected Separable Convolutional Network	SDG 3, SDG 9	SCI
3	Dr. S. Narasimha Reddy	Multi-Modal Fusion of Deep Transfer Learning Based COVID-19 Diagnosis and Classification using Chest X-Ray Images	SDG 3, SDG 9	SCI
4	Dr. S. Narasimha Reddy	NoSQL Databases: Modern Data Systems for Big Data Analytics - Features, Categorization and Comparison	SDG 9	SCI
5	Dr. A. Jothi Prabha	Radial basis function networks-based resource-aware offloading video analytics in mobile edge computing.	SDG 9, SDG 11	SCI
6	Dr. A. Jothi Prabha	En-DeNet Based Segmentation and Gradational Modular Network Classification for Liver Cancer Diagnosis.	SDG 3, SDG 9	SCI
7	Dr. A. Jothi Prabha	Multi-Process Remora Enhanced Hyperparameters of Convolutional Neural Network for Lung Cancer Prediction	SDG 3, SDG 9	SCI
8	Dr. A. Jothi Prabha	Machine Learning-Based Modelling and Predictive Maintenance of Turning Operation under Cooling/Lubrication for Manufacturing Systems	SDG 9, SDG 11	SCI
9	Dr. A. Jothi Prabha	Prediction of dyslexia severity levels from fixation and saccadic eye movement using machine learning	SDG 3	SCI
10	Dr. B. Hanumanthu	RoughSet based Feature Selection for Prediction of Breast Cancer.	SDG 3, SDG 9	SCI

11	Dr. B. Hanumanthu	Intelligent IDS: Venus Fly-Trap Optimization with Honey-pot Approach for Intrusion Detection and Prevention	SDG 9	SCI
12	S. Raghu	Brain Tumor detection based on MRI Image segmentation using U-Net	SDG 3, SDG 9	Scopus
13	Dr. S. Narasimha Reddy	Recognition of Yoga Asana from Real Time Videos using Blaze-pose	SDG 3	Scopus
14	S. Raghu	Brain Tumor detection based on MRI Image segmentation using U-Net	SDG 3, SDG 9	Scopus
15	Dr. S. Narasimha Reddy	Face Recognition Using Gradient Texture Features.	SDG 9, SDG 11	Conference
16	Dr. S. Narasimha Reddy	Smart Water Resource Management by Analyzing the Soil Structure and Moisture Using Deep Learning	SDG 2, SDG 9	Conference
17	I. Sai Rama Krishna	Novel Approach for Character Recognition Using Chi-Square.	SDG 9	Conference
18	Dr. S. Narasimha Reddy	Plant Disease Prediction Using Image Processing and Deep Convolutional Neural Network	SDG 2, SDG 9	Conference
19	Dr. S. Narasimha Reddy	Detection of Fake News: A Machine Learning Approach.	SDG 9	Conference
20	Dr. A. Jothi Prabha	Image-based Detection of Dyslexic Readers from 2-D Scan path using an Enhanced Deep Transfer Learning Paradigm.	SDG 3, SDG 9	Conference