



KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE, WARANGAL
काकतीय प्रौद्योगिकी एवं विज्ञान संस्थान, वरंगल
DEPARTMENT OF INFORMATION TECHNOLOGY

SDG GOALS ADDRESSED BY RESEARCH PAPERS



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Research papers towards SDGs

AY 2024-25

S No	Name of the Faculty	Title of the Paper	SDGs addressed	SCI/Scopus/Conference
1	Dr. Deepika Kongara, Shivani Krishnama	A Framework for Character Recognition APP Using ML Kit	SDG 9	Scopus
2	Bhaskar Adepu, Dr. T. Archana	Multi-Model Stack Ensemble Deep Learning Approach for Multi-Disease Prediction in Healthcare Application	SDG 3	Scopus
3	K.Praveen Kumar, V. Sree Ranganayaki, Srinivas Nagineni, Voore Subrahmanyam Birru Devender	Early Prediction of Surgical Intervention in Neonates with Necrotizing Enterocolitis Using Machine Learning: A Retrospective Cohort Study	SDG 3	Scopus
4	K. Praveen Kumar, Dr. N. Suresh Kumar,	Advanced Attack Mitigation in IoT Gateway Protocols	SDG 9	SCI
5	Voore Subrahmanyam, N.Sateesh Kumar, Nagurla Mahender, Jyothi Devaraj, Indraneel K, Sriram Parabrahmachari	An Efficient Algorithm to Enhance Confidentiality, Security and Quality of Service (QoS) for Internet of Things (IoT) Communication Network	SDG 9	UGC

AY: 2023-24

S No	Name of the Faculty	Title of the Paper	SDGs addressed	SCI/Scopus/Conference
1	Narahari Ajmeer and P. Kamakshi	Hamiltonian Deep Neural Network Fostered Sentiment Analysis Approach on Product Reviews	SDG 9	Scopus
2	Bhaskar Adepu and Kiran Kumar Bejjanki	Medical Image Processing using Deep Learning Techniques in Big Data Perspective	SDG 3	Scopus
3	Y.Bhavani, B.Kiran Kumar, SwathyVodithala, V.Rachana P.Sravani	Graphical Authentication System using Image Panels	SDG 16	Scopus
4	J. Deepika, P. Selvaraju, Mahesh Kumar Thota, Mohit Tiwari, Dunde Venu,	Efficient Classification Of Kidney Disease Detection Using Heterogeneous Modified Artificial Neural Network And Fruit Fly Optimization Algorithm	SDG 3	Scopus

	K. Manjulaadevi, and N. Geetha Lakshmi			
5	Mahesh Kumar Thota , Prathibhavani P. M., and Venugopal K. R	Smart Cities: Survey on Addressing Challenges in Smart Cities	SDG 11	Scopus
6	T. Senthil Murugan	Energy and Security-Aware Data Transmission in IoT: An Optimal Cluster Head Selection Approach with Spiral Chip Dynamics Optimizer (SCDO)	SDG 9	SCI
7	K. Deepika S. Sankar Ganesh D. J. Joel Devadass Daniel. Shruti Bhargava Choubey. R. Ramya. B. Senthilkumar	Efficient Optimization approach in WSN using Multicast Forwarding Scheme in 6LowPAN Environment	SDG 9	Scopus
8.	N. Rajender and M. Venu Gopalachari	An efficient dimensionality reduction based on adaptive-GSM and transformer assisted classification for high dimensional data	SDG 9	Scopus
9.	Dr. Sampath Korra, Dr. T. Bhaskar, Dr. N. Ramana, Dr. Sreedhar Bhukya and Nagunuri Rajender	An Efficient Guided Backpropagation Approach for Detection of Plant Diseases Using Deep Learning Models	SDG 2	Scopus
10	Anbumani K., Cuddapah Anitha, Achuta Rao S. V., Praveen Kumar K and Meganathan Ramasamy	Video Face Tracking for IoT Big Data using Improved Swin Transformer-based CSA Model,	SDG 9 SDG 11 SDG 16	UGC
11	Suwarna Gothane, G. Vinoda Reddy, K. Praveen Kumar and D. Baswaraj	Sentiment Analysis in Social Media using Deep Learning Techniques	SDG 9 SDG 10 SDG 16	UGC

AY: 2022-23

S No	Name of the Faculty	Title of the Paper	SDGs addressed	SCI/Scopus/Conference
1	Gopampallikar Vinoda Reddy, Kongara Deepika	Human Action Recognition using Difference of Gaussian and Difference of Wavelet	SDG 9	WoS
2	K.Amulya , Dr. K Deepika and Dr. P Kamakshi	An Optimized Hyper Parameter-based CNN Approach for Predicting Medicinal or Non- Medicinal Leaves	SDG 3	SCI
3.	R.Dineshkumar, M.Kalimuthu , K.Deepika and S.Gopalakrishnan	Engineering Education with Tool Based Technical Activity (TBTA)	SDG 4	Scopus
4.	Dr. Deepika Kongara and Shivani Krishnama	A Process of Penetration Testing using Various Tools",	SDG 16	Scopus
5.	B.Kiran Kumar , K. Sai Priyanka and	Class Imbalance Reduction and Centroid based Relevant Project Selection for Cross	SDG 9	Scopus

	T.Mahesh Kumar	Project Defect Prediction		
6.	B.Kiran Kumar, Jayadev Gyani, Y.Bhavani, P.Ganesh Reddy and T .Nagasai Anjani Kumar	Centroid and Nearest Neighbor based Class Imbalance Reduction with Relevant Feature Selection using Ant Colony Optimization for Software Defect Prediction	SDG 9	WoS
7.	Swathy vodithala , Vaishnavi Gudimalla , Y.Bhavani and Preethi madadi	Recommendation of Algorithm for Efficient Retrieval of Songs from Musical Dataset	SDG 9	Scopus
8.	T. Senthil Murugan	Blockchain-IoT based Secure Data Sharing for Precision Agriculture with Optimal Clustering and a Hybrid Encryption Algorithm	SDG 2	Scopus
9.	Mahesh Kumar Thota, Prathibhavani P M, Venugopal K R	Proffering Ranks to the Smart Cities based on the Data Received from IoT Devices using Visualization Techniques	SDG 11	Scopus
10	Deepika Kongara and G. Divya	Extraction of Speech Emotion Features Using MLP Classifier	SDG 3	UGC
11	S.B. Swathi, Yuvaraj Puranam and Rachana Vannala	Artificial Intelligence Involvement in Predicting the heart disease on Databases: A Survey	SDG 3	UGC
12	S.B. Swathi and Poosa Chandana	Heart Disease Prediction using Various Machine Learning Techniques and Analysis of Techniques	SDG 3	UGC
13	S.B. Swathi, Rachana Vannala and Yuvaraj Puranam	Comparative Analysis of Data Decryption Techniques	SDG 9	UGC
14	Dr. K. Deepika, Y. Sindhu Sai, G. Ruchitha	An Approach of Using Machine learning Ensemble Models for Predicting Hypothyroid Disease	SDG 3	UGC
15	T Senthil Murugan, V. Reethika, K.Snehitha, P.Akhil Rewanth, S.Vamshidhar	Green House Monitoring and Control Systems using IoT	SDG 2	UGC
16	N. Srinivas and Pariki Vishal	Spammer Detection and Fake User Identification on Social Networks	SDG 16	UGC

AY: 2021-22

S No	Name of the Faculty	Title of the Paper	SDGs addressed	SCI/Scopus/Conference
1	K.Deepika , M. Sowjanya Reddy , N. Rajesh Pandian and R. Dinesh Kuma	Analysis of Performance of Accuracy by adding New Features individually using Relief-F and Budget Tree Random Forest (RFBTRF) method	SDG 9	Scopus
2	Gopalakrishnan Subburayalu, Hemanand Duraivelu, Arun Prasath Raveendran, Rajesh Arunachalam, Deepika Kongara and	Cluster Based Malicious Node Detection System for Mobile Ad-Hoc Network Using ANFIS Classifier	SDG 16	WoS

	Chitra Thangavel			
3	Dr. Sridhar Manda, Dr.Venkateshwarlu Velde, Ms. Sree Lakshmi Potlapally, Dr.Arun Kumar and Dr. Sravan Kumar V	Improving IOT Routing Performance in Multi Region Geocasting	SDG 9	SCI
4	Siripuri Divya, Y.Bhavani and Thota Mahesh Kumar	A Survey on Genomic Dataset for Predicting the DNA Abnormalities Using ML	SDG 3	Scopus
5	Dr.UdaraYedukondalu, G.Vijayalaxmi , Dr.Swapna and Dr.K.BasavaRaju	Applications of Machine Learning and auxiliary Tumor Treatment in the Process of Medical Resource Allocation	SDG 3	UGC