



MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

(UGC-AUTONOMOUS INSTITUTION)

Affiliated to JNTUA, Ananthapuramu & Approved by AICTE, New Delhi

NAAC Accredited with A+ Grade,

NBA Accredited - B.Tech. (CIVIL, CSE, ECE, EEE, MECH), MBA & MCA.



Department of Computer Applications

Faculty publications details for the AY 2024-25

S. No.	Title of the paper	Name of the Author's	Name of the Journal	Month & Year of Publication	DOI Number / Website link / Application Number	Scopus/ Conference / Journal / PATENT
1.	A robust method for malware analysis using stacking classifiers and dendrogram visualization	N. Naveen Kumar ¹ · S. Balamurugan ² · R. Maruthamuthu ³ · P. P. Devi ⁴ · P. Seshu Kumar ⁵	Int. j. inf. tecnol	.July 2024	https://doi.org/10.1007/s41870-024-01982-z	Journal. Scopus
2.	Temporal and Spatial Data Fusion Integration in B-ANN for Improved Lithofacies Classification and Reservoir Characterization	N. Nirmaladevi ¹ , T.Saravanan ^{2*} , B.Senthilkumaran ³ , John T Mesia Dhas ⁴ , K.Sivagami ⁵ , M.Amsa ⁶	Journal of Computational Analysis and Applications	.Sep 2024	https://eudoxuspress.com/index.php/pub/article/view/1118	Journal. Scopus
3.	Optimized memory allocation in edge-PLCs using Deep Q-Networks and bidirectional LSTM with Quantum Genetic Algorithm	N. Naveen Kumar ¹ , S. Saravana ² , S. Balamurugan ³ , P. Seshu Kumar ⁴ , S. Suresh ⁵	e-Prime - Advances in Electrical Engineering, Electronics and Energy	.Sep 2024	https://doi.org/10.1016/j.prime.2024.100762	SCI



MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

(UGC-AUTONOMOUS INSTITUTION)

Affiliated to JNTUA, Ananthapuramu & Approved by AICTE, New Delhi

NAAC Accredited with A+ Grade,

NBA Accredited - B.Tech. (CIVIL, CSE, ECE, EEE, MECH), MBA & MCA.



S. No.	Title of the paper	Name of the Author's	Name of the Journal	Month & Year of Publication	DOI Number / Website link / Application Number	Scopus/ Conference / Journal / PATENT
4.	Optimizing Computation: A Biomimicry Design Spiral Approach to Algorithm Development	Vaishali B. Langote ¹ , Jnanaranjan Acharya ² , S Saranya ³ , Mamta B Savadatti ^{4*} , T. Saravanan ⁵ , P. Vidya ⁶ , Ajay Sudhir Bale ⁷ and Saurabh Mittal ⁸	Communications on Applied Nonlinear Analysis	.Oct 2024	https://internationalpubls.com/index.php/cana/article/view/2317/1425 https://doi.org/10.52783/cana.v32.2317	Journal. Scopus
5.	Optimizing support vector regression using grey wolf optimizer for enhancing energy efficiency and building prototype architecture	Mohd Sakib , Shahnawaz Ahmad, Khalid Anwar & Mohd Saqib	Cluster Computing Journal	.Nov 2024	https://doi.org/10.1007/s10586-024-04802-y	SCI
6.	Enhanced cryptographic performance and security using optimized edward-elgamal signature scheme for IoT and blockchain applications	S. Kavitha ^{1,*} , J. Srinivasan ² , P. Ramachandran ³ and I.Nasurulla	INTERNATIONAL JOURNAL ON SMART SENSING AND INTELLIGENT SYSTEMS	.Nov 2024	DOI: 10.2478/ijssis-2024-0032	SCI
7.	Proactive Detection of Malicious Webpages Using Hybrid Natural	Althaf Ali A ^{1*} , Rama Devi K ² ,	Journal of Information and Organizational	.Dec 2024	DOI: 10.31341/jios.48.2.4	Journal. Scopus



MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

(UGC-AUTONOMOUS INSTITUTION)

Affiliated to JNTUA, Ananthapuramu & Approved by AICTE, New Delhi

NAAC Accredited with A+ Grade,

NBA Accredited - B.Tech. (CIVIL, CSE, ECE, EEE, MECH), MBA & MCA.



S. No.	Title of the paper	Name of the Author's	Name of the Journal	Month & Year of Publication	DOI Number / Website link / Application Number	Scopus/ Conference / Journal / PATENT
	Language Processing and Ensemble Learning Techniques	Syed Siraj Ahmed N ³ , Ramchandran P ⁴ and Parvathi S ⁵	Sciences			
8.	An Efficient Speech Synthesizer: A Hybrid Monotonic Architecture for Text-to-speech via VAE & LPC-Net with Independent Sentence Length	Naveen Kumar Nallabala ¹ · Balamurugan Souprayan ² · Maruthamuthu Ramasamy ¹ · Seshu Kumar Penumarti ¹ · Nuthan Chandu Navuluri ³	Circuits, Systems, and Signal Processing	.Mar 2025	https://doi.org/10.1007/s00034-025-03045-5	SCI
9.	Developing a Hybrid Faster Recurrent Convolutional Neural Network with an Improved Weighted Artificial Bee Optimization Method for Grape Disease Detection at an Early Stage	P. Jayapal ¹ , Pranesh Saminathan ² , Karthika ³ , N. Nirmala Devi ⁴ , K.R. Surendra ⁵	SSRG International Journal of Electronics and Communication Engineering	.Jan 2025	https://doi.org/10.14445/23488549/IJECE-V12I1P113	Journal. Scopus
10.	Integrating Spatial Data Fusion	N. Nirmala devi ¹ ,	Grenze International	.Jan 2025	https://thegrenze.com	Journal. Scopus



MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

(UGC-AUTONOMOUS INSTITUTION)

Affiliated to JNTUA, Ananthapuramu & Approved by AICTE, New Delhi

NAAC Accredited with A+ Grade,

NBA Accredited - B.Tech. (CIVIL, CSE, ECE, EEE, MECH), MBA & MCA.



S. No.	Title of the paper	Name of the Author's	Name of the Journal	Month & Year of Publication	DOI Number / Website link / Application Number	Scopus/ Conference / Journal / PATENT
	and Temporal Data in B-ANN for Enhanced Lithofacies Classification and Reservoir Characterization	K. Roopa ² , Malle venkatasiva ³ , Anbu Tharun ⁴ , Chenana Rohith ⁵ Vempalli Rizwana ⁶	Journal of Engineering and Technology,		/index.php?display=page&view=journalabstract&absid=4133&id=8	
11.	Energy Consumption Optimisation through Machine Learning: a Strategic Approach to Sustainable Procurement in Smart Grids and Buildings: a Bibliometric Analysis	Saravanan Thirunavukkarasu , Kavitha K, Sandeep T. T, Shalini Reddy P, Madhavi R, Dillipriya L	International Journal of Procurement Management	Apr 2025	DOI: 10.1504/IJPM.2025.10069830	Journal Scopus
12.	Robust Ensembled Model Based Reinforcement Learning for Better Tomato Yield in Greenhouse	Gandhimathi S, Senthilkumaran B, Jude Moses Anto Devakanth J , Nithya K V Jayaprakash Chinnadurai	Journal of Machine and Computing	April 2025	Doi: https://doi.org/10.53759/7669/jmc202505090	Journal



MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

(UGC-AUTONOMOUS INSTITUTION)

Affiliated to JNTUA, Ananthapuramu & Approved by AICTE, New Delhi

NAAC Accredited with A+ Grade,

NBA Accredited - B.Tech. (CIVIL, CSE, ECE, EEE, MECH), MBA & MCA.



S. No.	Title of the paper	Name of the Author's	Name of the Journal	Month & Year of Publication	DOI Number / Website link / Application Number	Scopus/ Conference / Journal / PATENT
13.	Shortest Path Orbit Prediction for Resilient LEO Satellite Networks to Navigating the Cosmos	Mrs. Roopa Prasad	International Journal of Computer Information Systems and Industrial Management Applications	Mar 2025	DOI: https://doi.org/10.70917/ijcisim-2025-0021	Journal Scopus
14.	Cluster Computing: Decision on "Optimized Intention-adaptive Graph Neural Network for Robust Failure Diagnosis of Microservice System Using Multimodal Data"	Dr Maruthamuthu, Dr. N. Naveen Kumar	Cluster Computing	April 2025	-	Journal SCI ACCEPTED