



MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

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Department of Computer Applications

Faculty Conference / Book Chapter / PATENT 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 Way to Design Fog Computing Model for 5G Network using Vanet	R. Maruthamuthu , N. Patel, T. Yawanikha, S. Jayasree, Z. Alsalami S. P. V. SubbaRao,	ICACITE 2024	.July 2024	https://ieeexplore.ieee.org/document/10617287	Conference
2.	The Contribution of Active Cooling on Perovskite Photovoltaic Cell Performance and Its Impact on the Power Production	Muntather Almusawi ^{1*} , Abbas Hameed Abdul Hussein ^{2*} , Phaneendra babu Bobba ^{3*} , S. Subburam ⁴ , R. Maruthamuthu ⁵ and V. Vivek ⁶	E3S Web of Conferences	.Sep 2024	https://doi.org/10.1051/e3sconf/202456405013	Conference
3.	Experimental and numerical validation of the energy-saving	N. Kalyana Sundaram ^{1,2*} , R.	E3S Web of Conferences	Sep-2024	https://doi.org/10.1051/e3sconf/202456411	Conference



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	performance of a passive pcm floor for a real-scale building	Maruthamuthu, Zaid Alsalam ³ , Mahdi abdulkhudur Alkhafaj ⁴ P. Srividya Devi ⁵ R. Senthil Kumar ⁶			017	
4.	Prediction and Comparative Analysis of the Stress Level of Humans by Using the Machine Learning Algorithms	C. Sivaraj J. Angeljulie D. Hemamalini Vikram Neerugatti Narayan Panchal T.R. Mahesh	4th International Conference on Technological Advancements in Computational Sciences (ICTACS)	.Jan 2025	DOI: 10.1109/ICTACS62700.2024.10840636	Conference
5.	Automated semantic segmentation and Diagnosis of Coconut Tree Infection Using Drone Imagery and Machine Learning approach for smart agriculture	M Vasumathy; J. Jude Moses Anto Devakanth; Mythili Thirugnanam; R. RoselinKiruba; R. Hamsaveni; R. Nandhini	4th International Conference on Technological Advancements in Computational Sciences (ICTACS)	.Jan 2025	https://doi.org/10.1109/ICISAA62385.2024.10829008	Conference
6.	Edge Intelligence Hybrid	S. Suneel,	2025 6th International	.Feb 2025	doi:	Conference



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	Framework for Real-Time IoT Applications Using Multi-Stage Adaptive Processing Methods	R. Kumar Yadav, K. N. Devi , B. T. Sree, A. R S. Upadhyay,	Conference on Mobile Computing and Sustainable Informatics (ICMCSI)		10.1109/ICMCSI64620.2025.10883617.	
7.	Intrusion Detection Mechanism Using Deep Learning	P. Ananthi, K. Nirmaladevi N. Kumar S	2024 International Conference on IoT Based Control Networks and Intelligent Systems (ICICNIS),	.Jan 2025	DOI: 10.1109/ICICNIS64247.2024.10823331	Conference
8.	Deep Learning Based Intrusion Detection for IoT Networks	P. Ananthi, K. Nirmaladevi M. G	2024 4th International Conference on Ubiquitous Computing and Intelligent Information Systems (ICUIS),	.Feb 2025	doi: 10.1109/ICUIS64676.2024.10866629.	Conference
9.	Edge Intelligence Hybrid Framework for Real-Time IoT Applications Using Multi-Stage Adaptive Processing Methods	S. Suneel, R. Kumar Yadav, K. N. Devi , B. T. Sree, A. R S. Upadhyay,	2025 6th International Conference on Mobile Computing and Sustainable Informatics (ICMCSI)	.Feb 2025	doi: 10.1109/ICMCSI64620.2025.10883617.	Conference
10.	A Virtual Assistance for	M. S. B. Panicker,	2024 9th International	.Feb 2025	DOI: 10.1109/ICCES	Conference



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	Visually Impaired People to Recognize Fabric Pattern and Color Using Human Computer Interaction Logic	R. Mohandas, S. Hariharan, K. N. Devi , M. S. K. Chaitanya R. Mishra,	Conference on Communication and Electronics Systems (ICCES),		63552.2024.10860143	
11.	Pixel Similarity-Based Steganography in Bit Planes: An Optimization-Driven Approach	R. Roselin Kiruba, J. Jude Moses Anto Devakanth , L. Sharmila, V. M, M. Misba C. S. Jothi,	2024 4th International Conference on Soft Computing for Security Applications (ICSCSA)	.Mar 2025	DOI: 10.1109/ICSCSA64454.2024.00080	Conference
12.	Integrating Cloud-based Data Mining Algorithms for Smart City Infrastructure Management and Decision Support Systems	M. Guru Vimal Kumar, J. Jude Moses Anto Devakanth , D. Selvapandian, V. R, J. Revathi and R. Aruna,	2024 4th International Conference on Soft Computing for Security Applications (ICSCSA)	.Mar 2025	DOI: 10.1109/ICSCSA64454.2024.00024	Conference
13.	An Efficient Approach on Image Encryption Steganography based on 2D SWT with Chaotic Techniques	N. N. Kumar, R. Viswanathan and P. S. Kumar,	2024 4th International Conference on Soft Computing for Security Applications (ICSCSA)	Mar 2025	DOI: 10.1109/ICSCSA64454.2024.00083	Conference



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14.	Effective Manner of Healthcare Management System for Hepatitis virus using PCA-BFF Optimization Algorithm with Clinical Data	C.Saranya Jothi; J.Jude Moses Anto Devakanth; B.Lalitha; P. Jeevanasree; R.RoselinKiruba; D.Lissy	2024 International Conference on Integration of Emerging Technologies for the Digital World (ICIETDW)	.Mar 2025	https://doi.org/10.1109/ICIETDW61607.2024.10939372	Conference
15.	Evolutionary Intelligence: A Hybrid Neural Framework for Dynamic System Innovation	P. Sharma, J. S. A. Khan, K. Radhika, J. G. Thatipudi, K. Sridevi and S. Upadhyay,	2025 International Conference on Electronics and Renewable Systems (ICEARS)	Apr 2025	https://doi.org/10.1109/ICEARS64219.2025.10940949	Conference
16.	Decentralization of Cloud Environment Using DES Technique in Medical Image	Roselinkiruba R; S. Deepan; Sharmila L; Poonguzhali S; Jude Moses Anto Devakanth J; J Kavitha	2025 International Conference on Machine Learning and Autonomous Systems (ICMLAS), <i>Prawet, Thailand</i>	Apr 2025	https://doi.org/10.1109/ICMLAS64557.2025.10968253	Conference
17.	Energy-Efficient Traffic	R. RoselinKiruba; Saranya Jothi C	Battery-Free Sensor Networks for	.Feb 2025	DOI: 10.4018/979-8-3693-7600-3	Book Chapter



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	Monitoring Combining Machine Learning With Battery-Free Sensor Networks	Vasumathy M. Koushik C. P. J. Jude Moses Anto Devakanth, Sharmila L	Sustainable Next-Generation IoT Connectivity (10)			
18.	Real-Time Landslide Detection and Early Warning Systems Using Battery-Free Wireless Sensor Networks	R. RoselinKiruba; Vasumathy M Shritharanyaa J Saranya Jothi C J. Jude Moses Anto Devakanth, Sharmila L	Battery-Free Sensor Networks for Sustainable Next-Generation IoT Connectivity (Chapter 12)	.Feb 2025	DOI: 10.4018/979-8-3693-7600-3	Book Chapters
19.	Foundations of Data Science	Dr. K. Nirmaladevi Dr. Radhika Krishnaswamy	Scientific International Publishing House	Mar 2025	ISBN 978-93-6674-413-1	Book
20.	Quantitative Analysis for LMS Using Mathematical Modeling by Artificial Intelligence	Kiruba R. Roselin , L. Sharmila , M. Misba , J. Kavitha and J. Jude Moses Anto	De Gruyter Brill Book : Math Optimization for Artificial Intelligence	April 2025	https://doi.org/10.1515/9783111436180-017	Book Chapter



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		Devakanth				
21.	IOT AND BLOCKCHAIN BASED ELECTRONIC HEALTH RECORD DEVICE AND INFORMATION MANAGEMEN	Dr.K.Nirmala Devi	Intellectual Property India	July 2024	202441052288	PATENT Published
22.	AI AND IMAGE PROCESSING BASED STROKE DISEASE PREDICTION DEVICE	Dr. J. Jude Moses Anto Devakanth	Intellectual Property India	Feb-2025	440953-001	PATENT Grant
23.	SMART VOICE ASSISTED COMPUTER DEVICE FOR VISUALLY IMPAIRED	Mrs.Suganya Selvam,	Intellectual Property India	October 2024	6396815	PATENT Grant