

Peer reviewed journals published

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Sl.No	Authors	Paper Title	Journal Title,Vol.,Page
1	Dr.Simy Mary Kurian	Enhanced Frost Self Organizing Map Segmentation Based Gradient Boost Classification for brain tumour Detection	ISSN 0033-2097 , https://doi:10.15199/48.2024.07.49
2	Dr.S.Padmalal,Dr.C.Sahaya Kingsly	IPML-ANP: An integrated polynomial manifold learning model and anchor node placement for wireless sensor node localization	Peer-to-Peer Networking and Applications, Volume 18, article number 86, February(2025), https://doi.org/10.1007/s12083-025-
3	S.Padmalal	Enhancing Sentiment Analysis in Social Media Texts Using Transformer-Based NLP Models	SSRG International Journal of Electrical and Electronics Engineering, Volume 11 Issue8,208-216, August 2024, ISSN:2348-8379, https://doi.org/10.14445/23488379/IJEEE-V11I8P118
4	Dr.S Padmalal	CCIR:The Next Frontier in Mobile Network Evolution - Integrating Communication and Computing for Enhanced Services,	Grenze International Journal of Engineering and Technology, Grenze ID: 01.GIJET.11.1.343
5	Dr.S Padmalal	Strategies for Optimizing Resource Utilization and Sensor Coverage in Intermittently Connected Wireless Sensor Networks	Grenze International Journal of Engineering and Technology, Grenze ID: 01.GIJET.11.1.105_1

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1	Dr.Vinodh P Vijayan	Robust fuzzy logic schemes for cooperative spectrum sharing in 5G networks with uncertain channel conditions	Computers & Electrical Engineering, Elsevier, Volume 114, March 2024, https://doi.org/10.1016/j.compeleceeng.2023.109060
2	Ms.Sijimol A S	Path indexed energy MANET routing protocol(PiEER)	SSRG International Journal of Electronics and communication Engineering(July 2023), https://doi.org/10.14445/23488549/IJECE-V10I7P105
3	Ms.Jinu P Sainudeen	Skin Cancer detection: Improved deep belief network optimal feature selection	Multiagent and grid systems(October 2023), https://doi.org/10.3233/MGS-230040 .

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1	Dr.Vinodh P Vijayan,Ms.Neema George	Multi-objective load balancing in cloud infrastructure through fuzzy based decision making and genetic algorithm-based optimization	IAES International Journal of Artificial Intelligence,2089-4872
2	Ms.Neema George	Hyper Volume sen task scheduling and multi objective deep auto encoder based resource allocation in cloud.	International Journal on recent and innovation trends in computing and communication,2321-8169
3	Dr.Vinodh P Vijayan	Intelligent exploration strategy for a mobile robot to reduce the repeated	International Journal of System Assurance

		searches in an unknown environment	Engineering and Management,0976-4348
4	Dr S Padmalal	Health Monitoring based Cognitive IOT using fast machine learning Technique	Journal of data acquisition and processing,1004-9037
5	Ms.Neethu Maria John	Training & Classification of PCA with LRM model for diabetes prediction	International Journal on recent and innovation trends in computing and communication,2321-8169
6	Dr C Sahaya Kingsly,Dr K John Peter	De-noising and Demosaicking of Bayer image using deep convolutional attention residual learning	Multimedia tools & Applications,20323–20342
7	Dr.Vinodh P Vijayan	Analysis of optimization algorithms for stability and convergence for natural language processing using deep learning algorithms	ELSEVIER, 2023.100784
8	Ms.Neema George,Dr.Vinodh P Vijayan	Tricube Weighted Linear Regression and Interquartile for Cloud Infrastructural Resource Optimization	Computer Systems Science and Engineering,2023.028117

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1	Dr.Vinodh P Vijayan	Iot In Smart Homes: Enhancing Lifestyle Through Intelligent Automation And Control	International Conference On Automation And Computation (Autocom), April 2025, 10.1109/AUTOCOM64127.2025.10957107
2	Dr.Vinodh P Vijayan	Automated X-Ray Image Classification For COVID-19 Detection Using Densenet-121 And SVM	International Conference On Automation And Computation Autocom 2025, April 2025, 10.1109/AUTOCOM64127.2025.10957479
3	Ms.Jinu P Sainudeen	Improved FCM based Segmentation and Self Improved Tuna Swarm Optimized Hybrid Classifier for Skin Cancer Detection	3rd International Conference on Artificial Intelligence For Internet of Things (AIIoT) 979-8-3503-7212-0/24/\$31.00 ©2024 IEEE DOI:10.1109/AIIoT58432.2024.10574800j
4	Ms.Neethu Maria John,Ms.Sruthy Emmanuel	Exploring the impact of cloud and edge computing in education: Addressing challenges and unveiling opportunities	AIP Conf. Proc. 19 August 2024; 3149 (1): 140017. https://doi.org/10.1063/5.0224670
5	Dr.Simy Mary Kurian	SMART FLOOD MONITORING SYSTEM,	International Journal of Information and Electronics Engineering, Vol. 15, No. 6 ,June 2025
6	Ms Neethu Maria John	Automated Eye Controlled System for Paralyzed Individuals	Vol. 15 No. 6 (2025): volume 15 issue 6(2025), DOI: https://doi.org/10.48047/hbejse56
7	Ms.Merlin Mary James	Deep Learning Based Emotion Recognition using face and voice analysis	International Journal of Information and Electronics Engineering Vol 15, No.6, June 2025 , DOI: https://doi.org/10.48047/zsq6g217

8	Anjumol Zachariah	MentalHealthBot: A Personalized AI-Powered Chatbot for Mental Health Support	International Journal of Information and Electronics Engineering Vol. 15 No. 6 (2025): volume 15 issue 6(2025)
9	Ms. Neethu Maria John	Eye Blink and Emotion detection system for paralyzed individuals	International Journal of Research Publication and Reviews, International Journal of Research Publication and Reviews, Vol 6, Issue 5, pp 9377-9382 May 2025
10	Ms.Sijimol M S	LANDSLIDE DETECTION USING MACHINE LEARNING	Vol. 15 No. 6 (2025): volume 15 issue 6(2025) https://ijee.org/index.php/ijee/issue/view/74
11	Ms.Merlin Mary James	Facial and Voice Emotion Detection via Deep Learning Methods	International Journal of Research Publication and Reviews, Vol (6), Issue (5), May (2025) Page – 8933-8937, Journal homepage: www.ijrpr.com ISSN 2582-7421
12	Merlin Mary James	IoT based landslide detection system and early warning	AIP Conf. Proc. 3260, 020027 (2025), https://doi.org/10.1063/5.0261787
13	Renju Renjith	Real-time deep fake detection using deep learning	AIP Conf. Proc. 3260, 020029 (2025), https://doi.org/10.1063/5.0263661
14	Jinu P Sainudeen	Cardio-vascular disease detection and classification using convolutional neural networks and transfer learning	AIP Conf. Proc. 3260, 020030 (2025), https://doi.org/10.1063/5.0259681
15	Chintu Maria Thomas	Adaptive traffic signal control using real-time vehicle density	AIP Conf. Proc. 3260, 020031 (2025), https://doi.org/10.1063/5.0263715
16	Nayana N Panicker	Enhanced brain tumor detection and classification using CNN	AIP Conf. Proc. 3260, 020033 (2025), https://doi.org/10.1063/5.0268760
17	Sandra Raju	Park finder: IoT-based car parking management system	AIP Conf. Proc. 3260, 020034 (2025),

			https://doi.org/10.1063/5.0265186
18	Athira S Nath	Obstacle removal and fire extinguishing robot using IoT	AIP Conf. Proc. 3260, 020037 (2025), https://doi.org/10.1063/5.0260350
19	Roja Thomas	Lung Cancer Detection and Classification using Alexnet CNN	6TH INTERNATIONAL CONFERENCE ON COMPUTATIONAL INTELLIGENCE AND DIGITAL TECHNOLOGY: ICCIDT2K24, DOI:10.1063/5.0259461
20	Renju Renjith	Prediction of mental depressive disorder using deep learning	AIP Conf. Proc. 3260, 020038 (2025) https://doi.org/10.1063/5.0263659
21	Jinu P Sainudeen	Skin cancer classification and stage identification using deep learning	Conference: 6TH INTERNATIONAL CONFERENCE ON COMPUTATIONAL INTELLIGENCE AND DIGITAL TECHNOLOGY: ICCIDT2K24, DOI:10.1063/5.0259683
22	Sijimol AS	Automated drug information retrieval from medical prescription using deep learning	AIP Conf. Proc. 3260, 020040 (2025), https://doi.org/10.1063/5.0260022
23	Nayana S Panicker	Skilled labor portal	AIP Conf. Proc. 3260, 020041 (2025), https://doi.org/10.1063/5.0268761
24	Anuja Ann Mani	Food xplorer: Vibrant cuisine experience	AIP Conf. Proc. 3260, 020042 (2025), https://doi.org/10.1063/5.0259674
25	Anjumol Zachariah	Sign language interpreter using CNN	AIP Conf. Proc. 3260, 020043 (2025), https://doi.org/10.1063/5.0259458
26	Sruthy Emmanuel	Greenhouse automation using machine to machine communication and IoT	AIP Conf. Proc. 3260, 020046 (2025), https://doi.org/10.1063/5.0259462
27	Devigopal S	Vitamin deficiency detection using convolutional neural network	AIP Conf. Proc. 3260, 020047 (2025), https://doi.org/10.1063/5.0260982

28	Dr.Neema George	Streamlining communication and collaboration with nexus chat, AIP Conference Proceedings 2025	AIP Conference Proceedings 2025
29	Neethu Maria John	Advanced visual assistance robot for the empowerment and guidance of visually impaired individuals	AIP Conf. Proc. 3260, 020049 (2025) https://doi.org/10.1063/5.0259359
30	Devigopal S	Dynamic seat changing and reservation system for movie ticket booking	AIP Conf. Proc. 3260, 020051 (2025) https://doi.org/10.1063/5.0260983
31	Neethu Maria John	Enhancing disease prediction through multi-model integration in online healthcare systems	AIP Conf. Proc. 3260, 020050 (2025) https://doi.org/10.1063/5.0259357
32	Nezrin Naushad	Pharma guard AI: Secure meds system	AIP Conf. Proc. 3260, 020052 (2025) https://doi.org/10.1063/5.0259465
33	Dr.Sabu George,	Exploring methodologies in detecting Facial macro and micro expressions for deception detection	6TH INTERNATIONAL CONFERENCE ON COMPUTATIONAL INTELLIGENCE AND DIGITAL TECHNOLOGY: ICCIDT2K24, DOI:10.1063/5.0259054
34	Sijimol A S, Navya Davis	WellX- Leveraging Deep learning and CNN for Integrated Diabetic Detection and Vitamin Health Solutions	Proceedings of the 4th International Conference on Innovative Mechanisms for Industry Applications (ICIMIA-2025) IEEE XPlore Part Number:CFP25K58-ART; ISBN: 979-8-3315-5386-9, DOI: 10.1109/ICIMIA67127.2025.11200922
35	Raihananth A S	Ration revolution a new era in food distribution	6TH INTERNATIONAL CONFERENCE ON COMPUTATIONAL INTELLIGENCE AND DIGITAL TECHNOLOGY: ICCIDT2K24, DOI:10.1063/5.0263800

36	Dr.C Sahaya Kingsly	Machine learning-based cyber threat analysis and handling healthcare environments	AIP Conference Proceedings, Volume 3260, Issue 1, id.020053, 10 pp, DOI: 10.1063/5.0259799
37	Dr.C Sahaya Kingsly	Spatio-temporal harmony: Leveraging CNN and ViTs for music genre classification	AIP Conference Proceedings, Volume 3260, Issue 1, id.020054, 10 pp, July 2025 DOI: 10.1063/5.0259798
38	Neena G Krishnan.	Q.Bot using artificial intelligence and machine learning	AIP Conf. Proc. 3260, 020056 (2025) https://doi.org/10.1063/5.0275377
39	Dr.S Padmalal	A real-time design for dense crowd enumeration via tracking using AI system	6TH INTERNATIONAL CONFERENCE ON COMPUTATIONAL INTELLIGENCE AND DIGITAL TECHNOLOGY: ICCIDT2K24, DOI:10.1063/5.0259974

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1	Dr.Vinodh P Vijayan,Ms.Neema George	Multicriteria generalized regressive neural federated learning for cloud computing task scheduling and resource allocation	E3S Web of Conf. 529 (2024) 04017 , https://doi.org/10.1051/e3sconf/202452904017
2	Ms.Jinu P Sainudeen	Deep Learning Architecture based skin cancer detection using deep belief network and grey wolf optimization.	International Conference on innovation in engineering and technology(ICIET2023), DOI:10.1109/ICIET57285.2023.10220806

3	Ms.Roja Thomas	A Novel Approach to identify pituitary tumor using an optimal CNN Model with Deep Learning	International Conference on Computational Intelligence, Networks and Security (ICCINS-(2023), DOI:10.1109/ICCINS58907.2023.10450087
4	Dr.Vinodh P Vijayan	Expanding Bioenergy: A Comparison of Waste-to-Energy Techniques.	” E3S Web of Conf. 529 02013 (2024),DOI: 10.1051/e3sconf/202452902013
5	Ms.Roja Thomas	A Breakthrough Approach for Prostate Cancer Identification Utilizing VGG-16 CNN Model with Migration Learning	IEEE International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation(IATMSI),(2024),DOI: 10.1109/IATMSI60426.2024.1050301
6	Dr.Vinodh P Vijayan,Ms.Neena Joseph	Analysis on Automatic International Classification of Disease Coding with Medical Records	E3S Web of Conf. 529 04014(2024), DOI: 10.1051/e3sconf/202452904014
7	Dr.S Padmalal	Securing the skies: Cybersecurity strategies for smart city cloud using various algorithms,	International journal on Recent and innovation Trends in computing and communication (September2023), https://doi.org/10.17762/ijritcc.v12i1.7969
8	Mr.Jayakrishnan B	Breast cancer diagnosis and prognosis using triple hybrid deep learning approach, ,	International Journal for multidisciplinary Research(IJFMR, 2024)
9	Dr. Vinodh P Vijayan	Enhancing the accuracy of target detection in remote video surveillance analytics through federated learning	Optical and Quantum Electronics (2024)56:185 https://doi.org/10.1007/s11082-023-05664-1

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1	Ms.Jinu P Sainudheen	A survey for the early detection and classification of malignant skin cancer using various techniques	Proceedings of the International Conference on Cognitive and Intelligent Computing
2	Dr. Vinodh P Vijayan	Satellite Image Fusion for Obtaining High Resolution Images Using Deep Neural Network	International Conference on Intelligent Innovations in Engineering and Technology (ICIET)
3	Dr.S Padmalal	Evaluation of Wireless Sensor Networks Module Using IOT Approach.	Proceedings of the third international conference on Artificial Intelligence and Smart Energy(ICAIS 2023) IEEE Xplore
4	Dr. C Sahaya Kingsly, Ms Neena Joseph, Ms. Sruthy K Joseph, Dr.K John Peter, Ms. Neema George	Wireless IOT Security Management enhancement & optimization using various Elements	International Conference on smart systems and inventive Technology (ICSSIT 2023)-ieee xplore
5	Dr. C Sahaya Kingsly	Sparse long short term memory approach for energy efficient adaptive cluster fuzzy based controller in wireless sensor network	International Conference on Smart systems and Inventive Technology, ICCSIV 2023
6	Mr.Vimal Babu P	Utilizing a Neural Network to recognize named entities in the Malayalam language	International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Volume 11, Issue 01, June 2023

7	Gayathri R Krishna	Crash Detection Using an IOT Based Sensor and Health Related Features	International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Volume 11, Issue 01, June 2023
8	Divya S B	Driver Assistance System In Stop Signal Intersection Scenarios With Live Gps Voice	International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Volume 11, Issue 01, June 2023
9	Sruthy Emmanuel	Realtime Drowsiness Detector & Alert System For Sleepy Commuters	International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Volume 11, Issue 01, June 2023
10	Tinu Thomas	Advanced Home Automation and Security Systems using IoT	International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Volume 11, Issue 01, June 2023
11	Jinu P Sainudeen	Vulnerability Deterrence System Using Web Application Firewalls-Deep Learning & Reinforcement Learning	International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Volume 11, Issue 01, June 2023
12	Amritha Soloman	Neonatal pain detection using triple CNN	International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Volume 11, Issue 01, June 2023
13	Mr. Jayakrishnan B	Breast Cancer Detection Using CLAHE-CNN Architecture,	International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Volume 11, Issue 01, June 2023
14	Sanoj C Chacko	A Novel Method For Data Security Using Coverless Image Steganography Using AES	International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Volume 11, Issue 01, June 2023

15	Anjana J Mani	Sitios Preference Based Carpooling	International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Volume 11, Issue 01, June 2023
16	Anoop T Sashidharan	Selective Feature Based Thyroid Disease Classification Using Deep Learning	International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Volume 11, Issue 01, June 2023
17	Dr.C Sahaya Kingsly	An Intelligent Deep-Learning based Drunk Driving Detection System	International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Volume 11, Issue 01, June 2023
18	Dr.S Padmalal	Virtual Mouse for Physically Disabled Using MediaPipe and PyAutoGUI	International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Volume 11, Issue 01, June 2023
19	Ms.Neethu Maria John	Ride Sharing	International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Volume 11, Issue 01, June 2023
20	Anjumol Zachariah	Human Disease Prediction And Doctor Booking System	International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Volume 11, Issue 01, June 2023
21	Ms.Neema George	Personality Trait Classification Using CNN-LSTM Model	International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Volume 11, Issue 01, June 2023
22	Ms.Renju Renjith	Human Detection System Using Iot	International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Volume 11, Issue 01, June 2023
23	Ms.Neena G Krishnan	Facial Recognition Attendance System Using Flask And Open - CV	International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Volume 11, Issue 01, June 2023

24	Ms.Roja Thomas	The Paw Project A Mobile Application for Identifying Stray Dogs	International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Volume 11, Issue 01, June 2023
25	Ms.Sruthy K Joseph	Human Pose Estimation Using AI/Machine Learning Algorithms	International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Volume 11, Issue 01, June 2023
26	Ms.Nayana N Panicker	Phonemithra	International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Volume 11, Issue 01, June 2023
27	Mr.Eldhose K Paul	Road Accident Prediction using Deep learning	International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Volume 11, Issue 01, June 2023
28	Ms.Jinu P Sainudeen	Mask and Helmet Recognition based on Machine Learning for ATM Security	International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Volume 11, Issue 01, June 2023
29	Mr.Jayakrishnan B	Credit Card Fraud Detection using Machine Learning	International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Volume 11, Issue 01, June 2023
30	Ms.Sruthy Emmanuel	Sign Language Translator: A hand gesture recognition device using Arduino	International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Volume 11, Issue 01, June 2023
31	Ms.Gayathri R Krishna	Visa Processing System Using Node JS	International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Volume 11, Issue 01, June 2023
32	Tinu Thomas	Voice Based Intelligent Virtual Assistant For Windows Using Python	International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Volume 11, Issue 01, June 2023

33	Gayathri R Krishna	Vehicle License Plate Recognition Using Dark Channel Prior Algorithm	International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Volume 11, Issue 01, June 2023
34	Eldhose K Paul	Enhancing Security of Industrial Internet of Things Against Botnet Attacks through Hybrid Deep Learning Methodology	International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Volume 11, Issue 01, June 2023
35	Sruthy K Joseph	Security Model for the privacy of Big Data in Health Care Cloud using Fog Computing,	International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Volume 11, Issue 01, June 2023
36	Sanoj C Chacko	Brain Tumor Detection & Classification using Machine Learning	International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Volume 11, Issue 01, June 2023
37	Tinu Thomas	File Encryption and Decryption Using Cryptanalysis	International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Volume 11, Issue 01, June 2023
38	Divya S B	An Intelligent Application for Detecting and Alerting on Dangerous Driving Behaviors	International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Volume 11, Issue 01, June 2023
39	Jayakrishnan B	Sound Triggered Patrolling And Surveillance Robot Using Deep Learning	International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Volume 11, Issue 01, June 2023
40	Anjana Sekhar	An Intelligent Hate Speech Detection System For Safetalk Using Bidirectional LSTM	International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Volume 11, Issue 01, June 2023

Books published:

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Sl. No	Name of the faculty	Title of the Book/Chapters published	ISBN No	Year of Publication	Name of the publisher
1	Dr. Simy Mary Kurian, Dr. C Sahaya Kingsly, Ms. Neethu Maria John	Foundations of Data Science	978-81-985461-5-9	2024-2025	Sri Krishna Hitech Publishing Company Pvt. Ltd
2	Dr. S Padmalal	Beginner's Guide to Problem Solving in Python Programming	978-93-93769-75-6	September 2024	Pandit Publications

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1	Dr. Vinodh P Vijayan	Advanced Python Programming	978-93-5625-643-9	2022	Scientific International Publishing House
2	Ms. Neena Joseph	DataBase Management Lab Manual	978-81-958941-4-7	2022	TechnoSTAR Publications
3	Ms. Gayathri R Krishna	System Software and Microprocessor Lab Manual	978-81-958941-2-3	2022	TechnoSTAR Publications
4	Ms. Sruthy Emmanuel	Data Structures Lab Manual	978-81-958941-2-3	November 2022	TechnoSTAR Publications

5	Ms.Roja Thomas	Programming in C Lab Manual	978-81-958941-0-9	November 2022	TechnoSTAR Publications
6	Ms.Syamamol T	Networking Lab Manual	978-81-958941-8-5	2022	TechnoSTAR Publications
7	Ms.Sruthy K Joseph	Operating Systems Lab Manual	978-81-958941-9-2	2022	TechnoSTAR Publications
8	Ms.Divya S B	Object Oriented Programming Lab Manual	978-81-958941-3-0	2022	TechnoSTAR Publications
9	Dr. Sabu George	Programming in C		2022	
10	Dr.S Padmalal	Foundations of Computer Science	978-81-961769-1-4	2022	GCS Publishers



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Patents Published

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S.No	Title of the Patent	All Authors	Patent Application Number	No of authors in Mangalam Affiliation	Year of Patent Published
1	Real Time Anomaly Detection using Deep learning in Cloud network traffic	Dr.S Padmalal	202441050064 A	1	2024
2	Secure Multiparty communication protocol for privacy preserving and encrypted data processing	Dr.C.Sahaya Kingsly, Dr.Simy Mary kurian, Dr.S.Padmalal, Ms. Neethu Maria John	202541004313A	4	2025
3	Quantum-Optimized Graph Search Algorithm for Solving NP-Hard Problems in Logistics	Dr.Simy Mary Kurian, Ms.Anjumol Zachariah, Sruthy Emmanuel, Sachusha S Shaji, Raihanath A S	202541042438 A	5	2025
4	Neuro-Symbolic Explainable AI System for Decision Transparency in Financial and Medical Applications	Dr.S Padmalal, Ms.Santumol C, Ms.Meenu S, Ms.Riya Rajan, Ms.Renuka Babu T	202541042439 A	5	2025
5	Lightweight Cryptographic Protocol for Real-Time Edge Computing Devices in Smart City Networks	Dr.C Sahayakingsly, Mr.Jayakrishnan B, Ms.Sijimol A S, Ms.Jesteena Surendran, Ms.Navya Davis	202541042440 A	5	2025

6	Block chain-Based Smart Contract Framework for End-to-End Traceability in Cold Chain Logistics	Dr.Neema George, Ms.Neethu Maria John, Ms.Jinu p Sainudeen,Ms.Devipriya S, Ms.Renu S	202541042442 A	5	2025
7	Gesture-Driven Adaptive User Interfaces for Differently-Abled Users in Augmented Reality Platforms	Dr.Sabu George, Ms.Merlin Mary James, Ms.Roja Thomas, Ms.Neena G Krishnan	202541042446 A	4	2025
8	Intelligent Safe Speed Advisory System for Vehicles Using Machine Learning	Ms.Neema George	202541043061 A	1	2025

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S.No	Title of the Patent	All Authors	Patent Application Number	No of authors in Mangalam Affiliation	Year of Patent Published
1	Artificial intelligence (AI) enabled cyber security threat detection and Response system	Ms Neema George, Ms.Divya S B	202341059010 A	1	2024
2	Device for detecting diseased leaves in plant by image processing.	Dr.C.Sahayakingsly,Dr.S P Predeep kumar Dr S Padmalal ,Ms.Neethu Maria John ,Ms.Jinu p Sainudeen ,Mr.Annop T Sasidharan, Ms.Sruthy Emmanuel	6327127	7	2024
3	Monitoring Agriculture waste by image processing system based on IOT	Ms.Neema George	202341035348 A	1	2024
4	Security system utilization image recognition and cryptographic techniques.	Dr.SPadmalal, Ms.Sijimola S,Ms.Renju Renjith, Ms.Anuja Ann Mani	202441030738 A	4	2024

5	Enhanced performance of managed service providers through optical	Ms.Neema George, Ms.Devi Gopal T, Ms.Sruthy Emmanuel, Ms.Roja Thomas, Ms.Raihanath A S	202441030717 A	5	2024
6	Greenhouse automation using machine to Machine Communication and IOT	Ms.Jinu P Sainudeen, Ms.Jayakrishnan B, Ms.Chnitu maria Thomas, Ms.Nezrin Noushad ,Ms.Athira S Nath	202441030747A	5	2024
7	Blockchain based secure storage and management system for e-health data	Dr. C Sahayakinsly, Ms.Merlin Mary James, Ms.Anjumol Zachariah, Ms.Sandra Raju	202441030746 A	4	2024
8	IOT and machine learning based intrusion detection system in cyber threats	Dr S P Prdeepkumar , Ms.Neethu Maria John, Ms.Nayana N Panicker, Mr.Anoop T Sasidharan	202441030733 A	4	2024

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S.No	Title of the Patent	All Authors	Patent Application Number	No of authors in Mangalam Affiliation	Year of Patent Published
1	An IOT Enabled Smart car parking meter	Ms.Neethu Maria John,Ms.Sruthy Emmanuel,Ms. Simy Mary Kurian	356941-001	3	2022
2	Design patent “E-Scooter wireless charging station”	Dr.Vinodh P Vijayan	356611001	1	2022
3	Maintenance Of Data Integrity and Security in Cloud Using Iot Based Audio Watermarking Approach	Dr.K John Peter,Dr.C Sahaya Kingsly	202241032409 A	2	2022
4	Machine Learning and Artificial Techniques for Intrusion Detection	Dr.C Sahaya Kingsly, Dr.S Padmalal,	22241066583	8	2022

		Ms.Neena Joseph, Ms. Neema George, Ms.Jinu P Sainudeen, Ms.Tinu Thomas, Ms.Merlin MaryJames, Ms.Justy Jameson			
5	Capsule for Housing Electro Medical Equipment for Radio diagnosis.	Dr.Vinodh P Vijayan	6277522	1	2023