



MANAKULA VINAYAGAR INSTITUTE OF TECHNOLOGY

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Kalitheerthalkuppam, Puducherry - 605107

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SUSTAINABLE DEVELOPMENT GOAL9

INDUSTRY, INNOVATION AND INFRASTRUCTURE

PARAMETER: RESEARCH

Aligned with SDG9



Academic Year 2022-23

S.No	PARTICULARS	RESEARCH PAPERS
1	National / International conferences	26
2	Journal publications	58
3	Book chapters	-

**Details of research papers published in
NATIONAL / INTERNATIONAL CONFERENCES aligned with SDG 9**

Sl. No	Name of the teacher	Title of the paper	Name of the conference	National / International	Year of publication	Affiliating Institute at the time of publication	Name of the publisher
ECE							
1	Dr. S. Yazhiniyan	Fuel Cell Regulating System for Electric Vehicle	ICSTSN 2023	International	2023	MVIT	–
2	Mr. M.Sivaraj	Enhanced train delay prediction using Faster RCNN	ICICEECI -22	International	2023	MVIT	–
CSE							
3	I.Varalakshmi	Detection of fabric defects based on Improved GAN using Deep learning techniques	ICSIE 23	International	2023	MVIT	Jawahar Engineering college with Samarkand state university, uzbekistan.

4	R.Indumathi	Animal Detection in farming land using DNN	ICRTCCB M -2023	International	2023	MVIT	Sethu Institute of Technology
IT							
5	Dr.P.Sivakumar	Multi Vendor Property Management System	International Conference on Recent Trends in Computer Communication and Business Management	International	2023	MVIT	Sethu Institute of Technology ,Pullor, Virudhunagar District
6	Mr.K.Vijiyakumar	IoT Based Noise Level Monitoring System	International Conference on Recent Trends in Computer Communication and Business Management	International	2023	MVIT	Sethu Institute of Technology ,Pullor, Virudhunagar District
7	Mrs.D.Sudha	Tracking Assistant using Nordic nRF52	International Conference on Recent Trends in Computer Communication and Business Management	International	2023	MVIT	Sethu Institute of Technology ,Pullor, Virudhunagar District

8	Mrs.J.Prabavadhi	Smart Health Care System using IoT and Cloud	International Conference on Recent Trends in Computer Communication and Business Management	International	2023	MVIT	Sethu Institute of Technology ,Pullor, Virudhunagar District
9	Mrs.J.Prabavadhi	Stock Market Prediction using Deep Learning Techniques	International Conference on Recent Trends in Computer Communication and Business Management	International	2023	MVIT	Sethu Institute of Technology ,Pullor, Virudhunagar District
10	Mrs.R.Kowsalya	A Privacy Preserving Deep Image retrieval Scheme using secured image Pattern in Cloud Computing	International Conference on Recent Trends in Computer Communication and Business Management	International	2023	MVIT	Sethu Institute of Technology ,Pullor, Virudhunagar District
11	Mrs.R.Dhamayanthi	A Privacy Preserving Deep Image retrieval Scheme using secured image Pattern in	International Conference on Recent Trends in Computer Communication and	International	2023	MVIT	Sethu Institute of Technology ,Pullor, Virudhunagar District

		Cloud Computing	Business Management				
12	Ms.C.Kavitha	Client Side Deduplication using Convergent Encryption	International Conference on Recent Trends in Computer Communication and Business Management	International	2023	MVIT	Sethu Institute of Technology ,Pullor, Virudhunagar District
13	Ms.V.Abirami	Client Side Deduplication using Convergent Encryption	International Conference on Recent Trends in Computer Communication and Business Management	International	2023	MVIT	Sethu Institute of Technology ,Pullor, Virudhunagar District
14	Mrs.R.Gayathiri	Ultrasonic Blind Walking Stick	International Conference on Recent Trends in Computer Communication and Business Management	International	2023	MVIT	Sethu Institute of Technology ,Pullor, Virudhunagar District

15	Mrs.R.Gayathiri	IoT Based Fire Alarm	International Conference on Recent Trends in Computer Communication and Business Management	International	2023	MVIT	Sethu Institute of Technology ,Pullor, Virudhunagar District
16	Mrs.R.Gayathiri	Enhancing Cloud Security using RSCPABE	International Conference on Recent Trends in Computer Communication and Business Management	International	2023	MVIT	Sethu Institute of Technology ,Pullor, Virudhunagar District
EEE							
17	Mr.S.Shanmugasundaram	Enhancing Cloud Security using RSCPABE	International Conference on Recent Trends in Computer Communication and Business Management	International	2023	MVIT	Sethu Institute of Technology ,Pullor, Virudhunagar District

18	Dr. K. Sedhuraman	Modified Total Cross Tied Configuration for the Enhancement of Global Maximum Power Under Partial Shaded Condition of a PV Array	First International Conference on Recent Trends and Innovations in Sustainable Electrical Energy Systems 2023 (RISEE 2023)	International	March 30-31, 2023	MVIT	IE(I)-Puducherry State Center and sponsored by SERB
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MECH

19	S. GaneshKumar	Studies on the morphology, tensile and tear attributes of ethylene propylene Diene monomer rubber nano composites reinforced with amine functionalized graphene nano platelets	-	International	2023	MVIT	NIT, Karaikal
20	Dr.P.Natarajan&Dr .B.Radjaram	A Sol- Gel Synthesis of Tio2: Sio2 Film for solar Photovoltaic	-	International	2023	MVIT	SRM, KTR Campus, Tamilnadu

		Application					
21	Dr.P.Natarajan&Dr .B.Radjaram	A Sol –Gel Synthesis of Tio2:Al2o3 Film for solar Photovoltaic Application	–	International	2023	MVIT	SRMIST,
22	Mr.B.Vasanth	Automation of Enamel Removal Process (students project)	–	NATIONAL	2023	MVIT	Chennai
23	Ms.G.Agalya	Factors Determining Emotional Wellbeing of Employees at Software Industry in Pondicherry Region	International Conference On Contemporary Management Practices	International	2023	MVIT	SRM Institute of Science & Technology
24	Ms.K.Kalaivani	A Study on Analysis of Customer Needs & Service quality at M/s Abreco Private limited	International Conference on Contemporary Management -23'	International	2023	MVIT	NPR college of Engineering & Technology

25	M.Sumithra	Electron Acceptor, Excitation Energies, Oscillatory Strength, Spectroscopic & Solvent Effect	Advanced Novel Materials in Multidisciplinary Perspectives(ICAMP '23)	International	2023	MVIT	St.Joseph College of Arts & Science, Cuddalore
26	M.Sumithra	Molecular docking, spectroscopic, Quantum Computational Investigation on 1-(3-((4-(diethylamino)-2-hydroxybenzylidene)amino)phenyl)ethan-1-one	Conference on Materials Research(ICMR-22)	International	2023	MVIT	Easwari Engineering College, Chennai

Details of research paper published in JOURNALS
aligned with SDG 9:Industry, Innovation and Infrastructure

Sl.No	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal /Digital Object Identifier (doi) number	
							Link to website of the Journal	Is it listed in UGC Care list/Scopus/Web of Science/ other, mention
ECE - 2022-23								
1	Intelligent assistant to predict and control the home appliances in user environment through brain computer interface using hybrid deep learning model	A. Shankar	ECE	Journal of Complementary Medicine Research	2023	ISSN 2146-8397	<u>DOI: 10.5455/jcmr.2023.14.02.23</u>	Web of Science

2	Improved optical and electrical properties of Fe doped ZnO nanostructures facilely deposited by low-cost SILAR method for photosensors or applications	Dr.S.Vinuth	ECE	Surfaces and Interfaces	2022	Volume 31,102071	https://doi.org/10.1016/j.surfin.2022.102071	SCI
3	Highly improved photo-sensing ability of In2S3 thin films through cerium doping	Dr.S.Vinuth	ECE	Optical Materials	2023	Volume 137, 113612	https://doi.org/10.1016/j.optmat.2023.113612	SCI
4	Enhancing the optoelectronic properties of low-cost nebulizer spray pyrolysis (NSP) prepared ZnS thin film through praseodym	Dr.S.Vinuth	ECE	Materials Science and Engineering: B	2023	Volume 289, 116213	https://doi.org/10.1016/j.mseb.2022.116213	SCI

	ium doping for photodetector applications							
5	High photocurrent performance of nebulizer sprayed Bi ₂ S ₃ thin films by a novel Cu-La doping strategy	Dr.S.Vinuth	ECE	Journal of Photochemistry and Photobiology A: Chemistry	2023	Volume 444, 1 October 2023, 114921	https://www.sciencedirect.com/science/article/abs/pii/S1010603023003866	SCI
6	Influence of samarium doping on enhancing the photosensing capability of nebulizer-sprayed bismuth sulfide thin films	Dr.S.Vinuth	ECE	Applied Physics A	2023	00339-023-06389-4	https://doi.org/10.1007/s00339-023-06389-4	SCI
7	Ion conducting behavior of electrspun nanocomposite quasi solid electrolyte for an efficient performan	Dr.S.Vinuth	ECE	Materials Chemistry and Physics	2020	Volume 250, 122945	https://doi.org/10.1016/j.mphys.2020.122945	SCI

	ce of dye sensitized solar cells							
8	Delay Reduction in three operand Binary adder,	Mr. S. Gowshameed	ECE	METSZ ET	2023	Volume 8, Issue 6, June 2023 ISSN:2061-2710	https://drive.google.com/file/d/1XOATI_Tv-UiwsPUFf9lsV34cmknsWhPc3/view	Scopus
9	Automatic Medicine dispatcher Using Telemonitoring	Dr.R. Sofia	ECE	METSZ ET	2023	Volume 8, issue 6, June 2023	https://drive.google.com/file/d/1ovnGIXIsJV_BVrurAnuYYYhOaZXoXuj/view	Scopus
10	Flow control of Polymer using syringe pump apparatus for Electrospinning Nanofiber Fabrication	Mrs.R.Vithiya	ECE	METSZ ET	2023	Volume 8, Issue 6, June 2023 ISSN:2061-27103	https://metszetjournal.com/	scopus
11	Design and Implementation of a Piezoelectric	Mr.Sivaraj M Mr.Kumaran K	ECE	METSZ ET	2023	Volume 8, Issue 6, June 2023 ISSN:20	https://drive.google.com/file/d/1-D6ZUp	scopus

	Dustbin Volume Indication System with LED Indication Light					61-2710	qFfa0Mbauc1AK1zq-od3Qu2Fpk/view?pli=1	
12	Augmented Reality based real time automation for IoT devices	Mr. P. Murali Dr. S. Shankar	ECE	METSZ ET	2023	VOLUME 8, ISSUE 7, 2023, ISSN 2061- 2710	https://drive.google.com/file/d/10z4dcO97vkhxHp1vOdEps8y1eXImjA/view?usp=drive_link	scopus
13	Efficient induction motor speed control using zigbee wireless technology	R.sambathkumar	ECE	METZ ET	2023	VOLUME 8, ISSUE 6, 2023, ISSN 2061- 2710	https://drive.google.com/file/d/1Pe0SgTsEPjxPS897A4brFYuFR4AyeiP/view	scopus
14	DNN based Gesture Language Translator	Mr.E.Ramassamy	ECE	METZ ET	2023	VOLUME 8, ISSUE 7, 2023, ISSN 2061- 2710	https://metszetjournal.com/	scopus
15	Error Efficient Approximate computing	Mrs. Marygetsy	ECE	METSZ ET	2023	Volume-9 Issue-2 May 2023.International	http://www.ijetjournal.org/IJET-V9I2P1	Google Scholar

	using Adder Optimizati on technique using 32-bit Ripple carry adder.					Journal of Engineer ing and Techniqu es (IJET).	6.pdf	
16	Design and Implement ation of a Sweep Generator for Precise Frequency Control	Dr.S. Arunmoz hi	ECE	METZE T	2023	VOLUM E 8, ISSUE 6, 2023, ISSN 2061-2710	https://drive.google.com/file/d/113INGX8wCvMSrc47Vm6rg0L3ULftaymO/view	scopus
17	Multi-Purpose Potential of RFID Technolog y for Access Control, Asset Tracking, and SOS Messaging Integration	Dr.S. Arunmoz hi	ECE	METZE T	2023	VOLUM E 8, ISSUE 6, 2023, ISSN 2061-2710	https://drive.google.com/file/d/1svqmf9Z9A18QxZZKyb3ubVxfjgQB eNjB/view	scopus
18	Infrared Image Enhancem ent Using Nearest Neighbor hood Contrast Pixel Matching	Mr.V. Rajesh	ECE	METZE T	2023	VOLUM E 8, ISSUE 6, 2023, ISSN 2061-2710	https://drive.google.com/file/d/18WWcDDwmzDAVZNIBqqavl2fSUVKNBtXh/view	scopus

CSE - 2022-23

19	Social spider optimization-based routing protocol for an energy sufficient WSN communication	Dr.S. Pariselva m	CSE	Journal of data acquisition and processing	2023	ISSN: 1004-9037 /68-80	https://scopus.com/journal/view?doi=10.11591/ije.v23i02.p0257	scopus
20	Object detection and recognition in dark using YOLO	Dr. N. Palanivel	CSE	Journal of data acquisition and processing	2023	ISSN: 1004-9037 / 57-67	https://scopus.com/journal/view?doi=10.11591/ije.v23i02.p0257	scopus
21	Controlling mouse and virtual keyboard using Eye-tracking by computer vision	R.Rajbharath	CSE	Journal of algebraic statistics	2023	Issn:1309-3452	https://publishoa.com/index.php/journal/index	Web of Science
22	Enhanced Wearable Strap For Feminine Using Iot	R. Sathish Kumar	CSE	International Journal of Informatics, Information System and Computer Engineering	2023	ISSN: 2746-1378, DOI:10.1016/j.jare.2022.08.015	https://ojs.unikom.ac.id	Web of Science

23	New Modern Approach To Predict Users' Sentiment Using CNN And BLSTM	R. Sathish Kumar	CSE	International Journal of Informatics, Information System and Computer Engineering	2023	ISSN: 2746-1378 DOI: 10.1016/j.jare.2022.08.004	https://www.researchgate.net/	Web of Science
24	SGDA: performance analysis of less energy consumption in smart iot using stochastic gradient descent algorithm	I.Varalakshmi	CSE	Journal of data acquisition and processing	2023	ISSN: 1004-9037 , DOI: 10.5281/zenodo.7765928	http://www.sjeycl.cn/	scopus
25	Intelligent energy efficiency system using gradient descent algorithm in IOT	I.Varalakshmi	CSE	Journal of emerging technologies and innovative research	2023	ISSN-2349-5162	https://www.jetir.org/	UGC CARE
26	Energy Aware Farmland Fertility Optimizati on Based Clustering Scheme for	Dr.D.Lubin Balasubramanian	CSE	Microprocessors and Microsystems	2023	ISSN-0141-9331 , https://doi.org/10.1016/j.micpro.2023.104759	https://www.sciencedirect.com/	SCI

	Wireless Sensor Networks							
27	Enhanced seagull optimization-based node localization scheme for wireless sensor networks	Dr.D.Lubin Balasubramanian	CSE	International Journal of Advanced Technology and Engineering Exploration,	2023	ISSN (Print): 2394-5443 ISSN (Online): 2394-7454	https://www.proquest.com/	SCI
28	Detecting domestic water leakage using internet of things	D.Mohan apriya	CSE	Journal of algebraic statistics,	2023	ISSN 1309-3452	https://publishoa.com/index.php/journal/index	Web of Science
29	“Virtual trust algorithm to mitigate cyber-attack in IOT networks”	D.Mohan apriya	CSE	International Journal of Telematique,	2023	ISSN:1856-4194X,	https://www.provinci ajournal.com/index.php/telematique/index	Web of Science
30	Decentralized blockchain system using consensus algorithm for real estate property management system	D.Mohan apriya	CSE	Journal of emerging technologies and innovative research	2023	ISSN-2349-5162	https://www.jetir.org/P1index.php	UGC CARE

31	Digitization of secure blockchain based electronic health record system using smart contract	D.Mohan apriya	CSE	Journal of data acquisition and processing	2023	ISSN: 1004-9037 / 42-56, DOI: 10.5281/ZENODO.7766292	http://www.sjcjycl.cn/	scopus
32	Alzheimer's Disease Detection using Deep Neural Network	R.Indumathi	CSE	International Journal of Telematique	2023	ISSN: 1856-4194	https://www.provinciajournal.com/index.php/telematique/index	Web of Science
33	Automatic Density Based Traffic Based Congestion control System Using Arduino Nano	R.Indumathi	CSE	Journal of algebraic statistics	June 22	ISSN: 1309-3452	https://publishoa.com/index.php/journal/index	scopus
34	Animal Detection in Farms Using Deep Neural Networks in Deep Learning	R.Indumathi	CSE	Journal of emerging technologies and innovative research	2023	(ISSN-2349-5162)	https://www.jetir.org/	UGC CARE
35	Enhancing farm management through	R. Indumathi	CSE	Journal of data acquisition and	2023	ISSN: 1004-9037 / 33-41,	http://www.sjcjycl.cn	scopus

	deep neural network for animal detection			processin g		DOI: 10.5281/ ZENOD O.77662 92		
36	Text to image synthesizer using generative adversarial networks	J.Jayapradha	CSE	Journal of data acquisition and processing	2023	ISSN: 1004-9037 / 81-95, DOI: 10.5281/ ZENOD O.77662 92	http://www.sjcjycl.cn	scopus
37	Detection of breast cancer using deep neural network (DNN) and random forest algorithm	G. Sharmila	CSE	Journal of data acquisition and processing	2023	ISSN: 1004-9037 / 33-41, DOI: 10.5281/ ZENOD O.77662 92	https://www.jettir.org/	scopus
38	Decentralized e-voting system based on blockchain technology using smart contracts and KECCAK-256 algorithm	M.Imran Khan	CSE	Journal of Semiconductor Opto Electronics	2023	ISSN:1001-5868, Vol. 42 No. 1 (2023), 1129-1139	https://www.bdtgd.cn/	scopus
39	Accident prevention and detection with alert	Mrs. S. Boovaneswari	CSE	Journal of Semiconductor OptoElec	2023	ISSN:1001-5868, Vol. 42 No. 1 (2023),	https://www.bdtgd.cn	scopus

	notifications using radio frequency			tronics		1129-1139		
40	Detection of defects in ceramic tiles using deep neural network in artificial	Mrs. S. Boovaneswari	CSE	Journal of Semiconductor Opto Electronics	2023	ISSN:1001-5868, Vol. 42 No. 01 (2023)	https://www.bdtgd.cn	scopus
41	Driver drowsiness and alcohol detection	J.Jayaprada	CSE	Journal of Semiconductor Engineering	2023	ISSN 1001-5868	https://www.bdtgd.cn	scopus
42	Machine Learning-based Sensory Substitution System for the Visually Impaired	R. Indumathi	CSE	European Chemical Bulletin	2023	ISSN 2063-5346	https://www.eurchembull.com/about	scopus
43	Extracting text from image and Braille to speech conversion	R. Sathish Kumar	CSE	European Chemical Bulletin	2023	ISSN 2063-5346	https://www.eurchembull.com/about	Scopus
44	Digitization of land property management system using blockchain technology	Mrs.D.Mohanapriya	CSE	European Chemical Bulletin	2023	ISSN 2063-5346	https://www.eurchembull.com/about	Scopus

45	Dehazing for video using dark channel priority	Mr.R.Raj Bharath	CSE	European Chemical Bulletin	2023	ISSN 2063-5346	https://www.eurchembull.com/about	Scopus
46	Expressive & Deployable Secured Banking Application using Cloud Environment	N.Arikan	CSE	European Chemical Bulletin	2023	ISSN 2063-5346	https://www.eurchembull.com/about	Scopus
47	Energy Efficiency using LoRaWAN protocol in Industrial IoT	Mrs.I.Va ralakshmi	CSE	European Chemical Bulletin	2023	ISSN 2063-5346	https://www.eurchembull.com/about	Scopus
48	Detection of Fabric Defects based on Improved GAN using CNN Algorithm	Mrs.I.Va ralakshmi	CSE	European Chemical Bulletin	2023	ISSN 2063-5346, Vol.12(Issue 3)	https://www.eurchembull.com/about	Scopus
IT-2022-23								
49	Automated climate prediction using pelican optimization based hybrid deep belief	A.Punitha	IT	Journal of Measurement: Sensors	2023	100714	https://www.sciencedirect.com/journal/measurement-sensors	Scopus

	network for Smart Agriculture							
Mech- 2022-23								
50	Mathematical modelling of process planning problem	Dr.P.Sivasankaran	MECH	Acta Tecnológica – International Scientific Journal About Technologies	2023	Volume-9	DOI:10.22306/atec.v9i1.158	(J Gate , Google scholar ,semantic scholar)
51	Additive manufacturing concepts for automotives parts and its extensions -- Review	Dr.P.Sivasankaran	MECH	Metszet journal	2022	Volume-	DOI:10.27896/METSZET8.3/07	Scopus
52	Importance of Quality Concepts in Education Industry in the Current Trend – Review	Dr.P.Sivasankaran ,Mr.S.Senthil Kumaran &Dr.P.Natarajan	MECH	International Journal of Engineering and Management Research	2022	Volume-12-6, 299-305	https://doi.org/10.31033/ijemr.12.6.40	UGC Care
53	Quality Concepts In Product Design – Survey	Dr.P.Sivasankaran	MECH	Acta Tecnológica – International Scientific Journal	2022	Volume-8, 4	doi:10.22306/atec.v8i4.159	UGC Care

				About Technologies (J Gate , Google scholar ,semantic scholar)				
54	Optimization of Distribution Problem In Logistics Using ANYLOG IC – Simulation Approach	Dr.P.Sivasankaran	MECH	International Journal of Application or Innovative in Engineering & Management (IJAEM)	2022	Volume-11, 28-42	–	Scopus
55	Experimental investigation on the performance characteristics and emissions of a CI engine fueled with enhanced microwave-assisted Karanja seed bio-oil	Dr.A.Mathiasu , Dr. Radjaram. B	MECH	Environmental Science and Pollution Research (ESPR)	2022	–	https://doi.org/10.1007/s11356-022-24283-z	Web of Science
RA - 2022-23								

56	Multilevel Inverter Design with Reduced Switches & THD Using Fuzzy Logic Controller	G. Renuka Devi	RA	SSRG International Journal of Electrical and Electronics Engineering	2023	ISSN: 2348-837	https://doi.org/10.14445/23488379/IJEEE-V9I12P101	Scopus
57	THD reduction in measurement of H - Bridge multilevel inverter using pulse modulated switching integrated with linear quadratic Regulator	G. Renuka Devi	RA	Measurement: Sensors	2023	ISSN 2210-271X.	https://doi.org/10.1016/j.measen.2022.100435	SCI
AIML- 2022-23								
58	Deepfake identification using Machine Learning Architecture	K.Anupriya	AIML	Gradiva Review Journal	2023	ISSN 0363-8057	https://gradivareview.com/volume-9-issue-5-2023/	UGC