



**GEETHANJALI INSTITUTE OF SCIENCE & TECHNOLOGY :: NELLORE
(AUTONOMOUS)**

Department of Electronics and Communication Engineering
R & D and Consultancy Activities

Research Publications (AY 2023-24)

S.No.	Name of the Author	Title of the Paper	Journal name	ISBN/ ISSN Number	Vol/ Month	Online Link
1	K. Radhika	Fuzzy c-means based medical image retrieval for identifying most clinically relevant images	Multimedia Tools and Applications	ISSN-1380-7501	December 2023	https://doi.org/10.1007/s11042-023-17440-0
2	U. Penchalaiah	A deep learning based latency aware predictive routing model for network-on-chip architectures	International Journal of Communication Systems	ISSN-1099-1131	Volume 36, Issue 17	https://doi.org/10.1002/dac.5602



GEETHANJALI INSTITUTE OF SCIENCE & TECHNOLOGY :: NELLORE
(AUTONOMOUS)
Department of Electronics and Communication Engineering
R & D and Consultancy Activities

Research Publications (AY 2022-23)

S.No.	Name of the Author	Title of the Paper	Journal name	ISBN/ ISSN Number	Vol/ Month	Online Link
1	Y. Ravi Sankaraiah	Artificial Intelligence Approach For Helmet Detection With Number Plate Extraction Using Yolo	Journal Of Critical Reviews	ISSN-2394-5125	Volume 10, Issue-3: 1-11	https://www.jcreview.com/admin/Uploads/Files/6453cf74ac9b55.75653269.pdf
2	G. Shanmugavel	Banana Freshness Detection Using Googlenet For The Applications Of Future Autonomous Industrial Robotic Arms	Journal Of Critical Reviews	ISSN-2394-5125	Volume 10, Issue-3: 12-21	https://www.jcreview.com/admin/Uploads/Files/6453cff1dfe1a2.95056127.pdf
3	Sd. Muntaz Begum	Fusion-Based Decision Approach For Image Forgery Detection Using Deep Lightweight Models	Journal Of Critical Reviews	ISSN-2394-5125	Volume 10, Issue-3: 22-31	https://www.jcreview.com/admin/Uploads/Files/6453d07bd9981.19371051.pdf
4	Sk. Haseena	Hyper Spectral Unmixing Using Joint Sparsity And Total Variation Regularized Model	Journal Of Critical Reviews	ISSN-2394-5125	Volume 10, Issue-3: 32-41	https://www.jcreview.com/admin/Uploads/Files/6453d1079a43c0.31340381.pdf
5	B. Suresh Kumar	A Deep Learning Model For Speech And Facial Expression Based Emotion Detection	Journal Of Critical Reviews	ISSN-2394-5125	Volume 10, Issue-3: 42-51	https://www.jcreview.com/admin/Uploads/Files/6453d198d00457.97875626.pdf

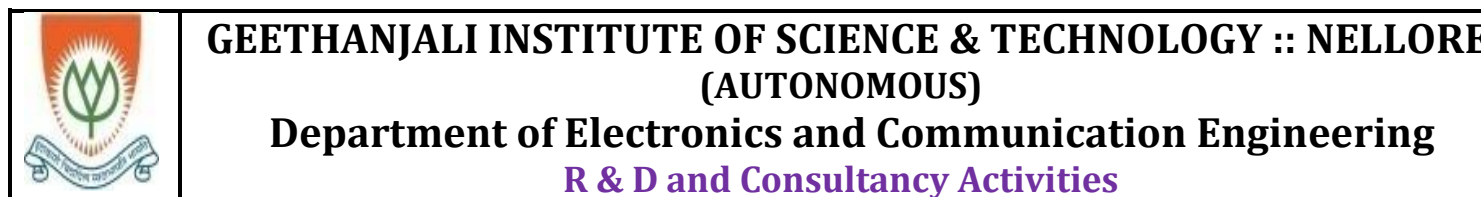
6	B. Suresh Kumar	IoT-Based Agribot With Parameter Monitoring Using Android Application	Journal Of Critical Reviews	ISSN-2394-5125	Volume 10 , Issue-3: 77-86	https://www.jcreview.com/admin/Uploads/Files/645519e444f8f0.14150382.pdf
7	K. Radhika	Water quality monitoring system using IoT	Journal Of Critical Reviews	ISSN-2394-5125	Volume 10 , Issue-3: 87-94	https://www.jcreview.com/admin/Uploads/Files/64551a4a8bc392.42984953.pdf
8	M. C. Shanker	Sign conversion for mute community using gesture and flex sensors	Journal Of Critical Reviews	ISSN-2394-5125	Volume 10 , Issue-3: 95-103	https://www.jcreview.com/admin/Uploads/Files/64551ac87015f0.68297888.pdf
9	G. Suresh	Design of error detectable hybrid carry select adder with self repairing properties	Journal Of Critical Reviews	ISSN-2394-5125	Volume 10 , Issue-3: 184-192	https://www.jcreview.com/admin/Uploads/Files/64563ed03436b8.07918802.pdf
10	K.Chandra Sekhar	Implementation of real time modified decision based median filter using data comparator	Journal Of Critical Reviews	ISSN-2394-5125	Volume 10 , Issue-3: 209-218	https://www.jcreview.com/admin/Uploads/Files/64563f6b720994.47229562.pdf
11	K.Sravani Kumari	VLSI Implementation of blind image watermarking system using hybrid address and multipliers	Journal Of Critical Reviews	ISSN-2394-5125	Volume 10 , Issue-3: 209-218	https://www.jcreview.com/admin/Uploads/Files/6456409e1b77e3.36685215.pdf
12	Dr. U. Penchalaiah	Design and implementation of smart helmet using internet of things for avoidance of accidents	Journal Of Critical Reviews	ISSN-2394-5125	Volume 10 , Issue-3: 249-258	https://www.jcreview.com/admin/Uploads/Files/6466cf8b163a46.13575899.pdf
13	Sd. Muntaz Begum	Design of Multiplier and Accumulator Using Sequential Finite Field Technique	Journal Of Critical Reviews	ISSN-2394-5125	Volume 10 , Issue-3: 193-200	https://www.jcreview.com/admin/Uploads/Files/64563df51a0517.37361927.pdf
14	G. Suresh	Performance Analysis of 4 - Bit Carry Look Ahead Adder Using Gate Diffusion Input	Journal Of Critical Reviews	ISSN-2394-5125	Volume 10 , Issue-3: 201-208	https://www.jcreview.com/admin/Uploads/Files/64563ed03436b8.07918802.pdf
15	G. Suresh	Zigbee-based smart zone system for avoiding the accidents	Journal Of Critical Reviews	ISSN-2394-5125	Volume 10 , Issue-3: 259-268	https://www.jcreview.com/admin/Uploads/Files/6466d015522424.39676555.pdf

16	Sk. Yasmeen	Detection Of Chronic Heart Failure Using Unified Machine Learning And Deep Learning	Journal of Cardiovascular Disease Research	ISSN-0975-3583, 0976-2833	Volume 14 , Issue 5: 41-53	http://jcdonline.org/admin/Uploads/Files/6453c2a28138f4.41406275.pdf
17	K. Radhika	Low-Level Feature Extraction With VLSI-Based Implementation Of Vi And IR Image Fusion	Journal of Cardiovascular Disease Research	ISSN-0975-3583, 0976-2833	Volume 14 , Issue 5: 54-64	http://jcdonline.org/admin/Uploads/Files/6453c3647a6524.11552873.pdf
18	Z. Chaithanya	Deep Learning Model For Detection Of Covid-19 And Pneumonia From Chest X-Ray Images	Journal of Cardiovascular Disease Research	ISSN-0975-3583, 0976-2833	Volume 14 , Issue 5: 65-72	http://jcdonline.org/admin/Uploads/Files/6453c3fa37b377.52397053.pdf
19	A. Silpa	Dermoscopy, Skin Cancer Detection, Discrete Wavelet Transform, Gray Level Co-Occurrence Matrix, Probabilistic Neural Networks	Journal of Cardiovascular Disease Research	ISSN-0975-3583, 0976-2833	Volume 14 , Issue 5: 73-84	http://jcdonline.org/admin/Uploads/Files/6453c494ee9bb4.55021491.pdf
20	K. Sravan Kumar	Multi Modal Medical Image Fusion Using Deep Learning Techniques	Journal of Cardiovascular Disease Research	ISSN-0975-3583, 0976-2833	Volume 14 , Issue 5: 88-100,2023	http://jcdonline.org/admin/Uploads/Files/6453c526230a97.48837778.pdf
21	K. Sravan Kumar	Implementation Of Massive Mimo In Sub-6 Ghz And Mmwave Technology Using Hybrid Precoding	Turkish Journal of Computer and Mathematics Education	ISSN-0975-3583, 0976-2833	Vol.14 No.02 (2023),323-334	https://www.turcomat.org/index.php/turkbilmate/article/view/13659/9802
22	K.Radhika	Image Contrast Enhancement Using Brightness Preservation Dynamic Histogram Equalization	Turkish Journal of Computer and Mathematics Education	ISSN-0975-3583, 0976-2833	Vol.14 No.02 (2023),335-351	https://www.turcomat.org/index.php/turkbilmate/article/view/13660/9803
23	K. Sravani Kumari	Two Stage Secure Medical Data Transmission For Iot Based E-Health Application	Turkish Journal of Computer and Mathematics Education	ISSN-0975-3583, 0976-2833	Vol.14 No.02 (2023),352-364	https://www.turcomat.org/index.php/turkbilmate/article/view/13661/9804

24	Y. Ravi Sankaraiah	Deep Learning Model For Haze Removal From Remote Sensing Images	Turkish Journal of Computer and Mathematics Education	ISSN-0975-3583, 0976-2833	Vol.14 No.02 (2023),375-384	https://www.turcomat.org/index.php/turkbilmat/article/view/13662/9805
25	G. Shanmugavel	Automatic Generation of Segmented Labels for Road Anomaly Detection: An Application for Robotic Wheelchair	Turkish Journal of Computer and Mathematics Education	ISSN-0975-3583, 0976-2833	Vol.14 No.02 (2023),385-393	https://www.turcomat.org/index.php/turkbilmat/article/view/13663/9806
26	A.Hari Krishna	Recognition of Crop Disease and Pesticide Suggestion using Convolution Neural Network	Turkish Journal of Computer and Mathematics Education	ISSN-0975-3583, 0976-2833	Vol.14 No.02 (2023),394-403	https://www.turcomat.org/index.php/turkbilmat/article/view/13669/9811
27	A.Silpa	Arduino-based Real Time Implementation of Smart Trash Collector using Internet of Things	Turkish Journal of Computer and Mathematics Education	ISSN-0975-3583, 0976-2833	Vol.14 No.02 (2023),404-412	https://www.turcomat.org/index.php/turkbilmat/article/view/13670/9812
28	E.Prasanthi	IoT-based Solar Powered Agribot using Arduino Controller	Turkish Journal of Computer and Mathematics Education	ISSN-0975-3583, 0976-2833	Vol.14 No.02 (2023),413-421	https://www.turcomat.org/index.php/turkbilmat/article/view/13671/9813
29	G. Suresh	Real Time Room Automation using IoT Device	Turkish Journal of Computer and Mathematics Education	ISSN-0975-3583, 0976-2833	Vol.14 No.02 (2023),422-434	https://www.turcomat.org/index.php/turkbilmat/article/view/13672/9814
30	A. Hari Krishna	A Low Power Binary Square Rooter Using Reversible Logic	Turkish Journal of Computer and Mathematics Education	ISSN-0975-3583, 0976-2833	Vol.14 No.02 (2023),435-443	https://www.turcomat.org/index.php/turkbilmat/article/view/13673/9815
31	Sk.Yasmeen	Design Of A 2-Bitmagnitude Comparator Using Multiplexer Using Ptl	Turkish Journal of Computer and Mathematics Education	ISSN-0975-3583, 0976-2833	Vol.14 No.02 (2023),444-453	https://www.turcomat.org/index.php/turkbilmat/article/view/13674/9816

32	Usthulamuri Penchalaiah	Design And Implementation Of Modified Vedic Multiplier Using Hscg-Scg adder	Turkish Journal of Computer and Mathematics Education	ISSN-0975-3583, 0976-2833	Vol.14 No.02 (2023),454-463	https://www.turcomat.org/index.php/turkbilmat/article/view/13675/9817
33	K. Chandra Sekhar	VLSI Implementation Of Turbo Encoder And Decoder Using Maximum A-Posteriori Approach	Turkish Journal of Computer and Mathematics Education	ISSN-0975-3583, 0976-2833	Vol.14 No.02 (2023),464-471	https://www.turcomat.org/index.php/turkbilmat/article/view/13676/9818
34	E. Prasanthi	Design Of LFSR Based Fast Error-Resilient Ternary Content Addressable Memory	Turkish Journal of Computer and Mathematics Education	ISSN-0975-3583, 0976-2833	Vol.14 No.02 (2023),472-48	https://www.turcomat.org/index.php/turkbilmat/article/view/13677/9819
35	Dr. K. Sravan Kumar	A Real time Voice Controlled Wheelchair for Specially Abled People	Turkish Journal of Computer and Mathematics Education	ISSN-0975-3583, 0976-2833	Vol.14 No.02(2023),742-751	https://www.turcomat.org/index.php/turkbilmat/article/view/13729/9862
36	Sd. Muntaz Begum	A Bluetooth Controlled Real-time Wheelchair with Mobile Application for Physically Challenged People	Turkish Journal of Computer and Mathematics Education	ISSN-0975-3583, 0976-2833	Vol.14 No.02(2023),732-741	https://www.turcomat.org/index.php/turkbilmat/article/view/13728/9861
37	Dr. K. Radhika	A Real time Head Movement Controlled Wheelchair for Paralyzed People	Turkish Journal of Computer and Mathematics Education	ISSN-0975-3583, 0976-2833	Vol.14 No.02(2023),752-762	https://www.turcomat.org/index.php/turkbilmat/article/view/13730/9863
38	Dr. U. Penchalaiah	IoT-based Real time Cabin Room Automation using Mobile Application	Turkish Journal of Computer and Mathematics Education	ISSN-0975-3583, 0976-2833	Vol.14 No.02 (2023),763-774	https://www.turcomat.org/index.php/turkbilmat/article/view/13732/9865
39	P.V. Krishna Rao	IoT-based Smart City with Streetlight Controlling, Drainage Overflow Alert and Vehicle Parking Management	Turkish Journal of Computer and Mathematics Education	ISSN-0975-3583, 0976-2833	Vol.14 No.02 (2023),775-782	https://www.turcomat.org/index.php/turkbilmat/article/view/13733/9866

40	K.Chandra Sekhar	IoT-based Real time Water Quality Management System using Arduino Microcontroller	Turkish Journal of Computer and Mathematics Education	ISSN-0975-3583, 0976-2833	Vol.14 No.02 (2023),783-792	https://www.turcomat.org/index.php/turkbilmat/article/view/13734/9867
----	------------------	---	---	---------------------------	-----------------------------	---



Research Publications (AY 2021-22)

S.No.	Name of the Author	Title of the Paper	Journal name	ISBN/ISSN Number	Vol/ Month	Online Link
1	P. Rahul Reddy	An energy-efficient reconfigurable accelerators in multi-core systems using PULP-NN	Applied Nanoscience	ISSN No. 2190-5517	Sep.2021	https://doi.org/10.1007/s13204-021-02069-y
2	P. Rahul Reddy	Design and Development of Graphene FET Biosensor for the Detection of SARS-CoV-2	Silicon Journal	ISSN No. 5913-5921	Sep.2021.	https://doi.org/10.1007/s12633-021-01372-1
3	Usthulamuri Penchalaiah	Design and implementation of low power and area efficient architecture for high performance ALU	Parallel Processing Letters Journal	ISSN No. 0129-6264	Vol.32, , Oct.2021	https://www.worldscientific.com/doi/abs/10.1142/S0129626421500171
4	Usthulamuri Penchalaiah	Low Energy, Long Sustainable And High-Speed FIR Filter Based On	Materials Today: Proceedings Journal	ISSN No. 2214-7853	Vol. 61, Part 2, Pages 504-511, Oct.2021.	https://www.sciencedirect.com/science/article/pii/S2214785321082572

		Truncated Multiplier With SCG-HSCG Adder,				
5	Dr.P.Rahul Reddy	Implementation of Smart Energy Meter through prepaid transaction using IoT	IEEE Xplore	978-1-6654-3559-8	August-2021	https://ieeexplore.ieee.org/document/9574015
6	Dr.P.Rahul Reddy	Distributed DoS Detection in IoT Networks using Intelligent Machine Learning Algorithms	IEEE Xplore	978-1-6654-8297-4	December-2021	https://ieeexplore.ieee.org/document/9708569
7	Dr.P.Rahul Reddy	Bat: Deep learning methods on network intrusion detection using the Nsl-Kdd dataset	International Journal of Developments in Technology and Science	ISSN No. 2581-9119	June 2022	http://www.ijdts.com/volume4-issue-2.html
8	Shaik Yasmeen	Design and analysis of a textile antenna for wearable microwave medical imaging applications	International Journal of Developments in Technology and Science	ISSN No. 2581-9119	June 2022	http://www.ijdts.com/volume4-issue-2.html
9	R.Mahendhar	Robot with voice controlled feature for assisting physically challenged people	International Journal of Developments in Technology and Science	ISSN No. 2581-9119	June 2022	http://www.ijdts.com/volume4-issue-2.html
10	K.Radhika	Detection of cardio vascular diseases using multi domain feature fusion and multi channel heart sound signals	International Journal of Developments in Technology and Science	ISSN No. 2581-9119	June 2022	http://www.ijdts.com/volume4-issue-2.html
11	G.Kiran Kumar	Vehicle to vehicle communication using LI-FI	International Journal of Developments in Technology and Science	ISSN No. 2581-9119	Volume 4, Issue 2, Pages 62-68, June 2022	http://www.ijdts.com/volume4-issue-2.html

12	U.Penchalaiah	Individual mind age prediction Using Magnetic Resonance Images via Deep Learning	International Journal of Developments in Technology and Science	ISSN No. 2581-9119	Volume 4, Issue 3, Pages 1-11, June 2022	http://www.ijdts.com/volume4-issue-2.html
13	P.Rahul Reddy	Image Security Using Artificial Neural Networks	International Journal of Developments in Technology and Science	ISSN No. 2581-9119	Volume 4, Issue 3, Pages 12-19, June 2022	http://www.ijdts.com/volume4-issue-2.html
14	K.Chandra Sekhar	Lightweight key encapsulation using LDPC codes on De Nano kits	International Journal of Developments in Technology and Science	ISSN No. 2581-9119	Volume 4, Issue 3, Pages 113-119, June 2022	http://www.ijdts.com/volume4-issue-2.html
15	M.N.L. Narayana Singh	Speaking bus stop remainder using Raspberry Pi	International Journal of Developments in Technology and Science	ISSN No. 2581-9119	Volume 4, Issue 3, Pages 109-112, June 2022	http://www.ijdts.com/volume4-issue-2.html
16	I Vidyasagar	Security And Safety In Vehicles Based On Facial Recognition	International Journal of Developments in Technology and Science	ISSN No. 2581-9119	Volume 4, Issue 3, Pages 103-108, June 2022	http://www.ijdts.com/volume4-issue-2.html
17	P.Raghava Reddy	Design of a data retention Tcam using a 6T SRAM cell to reduce leakage power	International Journal of Developments in Technology and Science	ISSN No. 2581-9119	Volume 4, Issue 3, Pages 96-102, June 2022	http://www.ijdts.com/volume4-issue-2.html
18	P.V.Krishna Rao	Smart system for seat vacancy display in metro station	International Journal of Developments in Technology and Science	ISSN No. 2581-9119	Volume 4, Issue 3, Pages 90-95, June 2022	http://www.ijdts.com/volume4-issue-2.html

19	T.Suneel kumar	Smart surveillance and accident alert system for public transportation	International Journal of Developments in Technology and Science	ISSN No. 2581-9119	Volume 4, Issue 3, Pages 79-89, June 2022	http://www.ijdts.com/volume4-issue-2.html
20	Dr.K.Radhika	IoT based digital notice board	International Journal of Developments in Technology and Science	ISSN No. 2581-9119	Volume 4, Issue 3, Pages 74-78, June 2022	http://www.ijdts.com/volume4-issue-2.html
21	K.Sravan Kumar	Identification of Communication Signals Using Region based Convolutional neural network (R-CNN) Approaches for Cognitive Radio	International Journal of Developments in Technology and Science	ISSN No. 2581-9119	Volume 4, Issue 3, Pages 68-73, June 2022	http://www.ijdts.com/volume4-issue-2.html
22	M.Siva Krishna	Bus monitoring fire and alert system for public transportation	International Journal of Developments in Technology and Science	ISSN No. 2581-9119	Volume 4, Issue 3, Pages 63-67, June 2022	http://www.ijdts.com/volume4-issue-3.html
23	A. Hari Krishna	Detection and screening out of breast cancer using deep learning technique	International Journal of Developments in Technology and Science	ISSN No. 2581-9119	Volume 4, Issue 3, Pages 55-62, June 2022	http://www.ijdts.com/volume4-issue-3.html
24	K.Sravan Kumar	A Novel Approach for Colour Correction and Quality Enhancement of Underwater Images using Deep Learning Techniques	International Journal of Developments in Technology and Science	ISSN No. 2581-9119	Volume 4, Issue 3, Pages 49-54, June 2022	http://www.ijdts.com/volume4-issue-3.html
25	I.Vidyasagar	Portable Auto Height Adjustable Stand for Hand Sanitizer	International Journal of Developments in	ISSN No. 2581-9119	Volume 4, Issue 3, Pages 43-48, June 2022	http://www.ijdts.com/volume4-issue-3.html

			Technology and Science			
26	G.Kiran Kumar	Smart mitten design and implementation for deaf and dumb people	International Journal of Developments in Technology and Science	ISSN No. 2581-9119	Volume 4, Issue 3, Pages 38-42, June 2022	http://www.ijdts.com/volume4-issue-3.html
27	R.Mahendhar Reddy	Patient health care monitoring system in emergency conditions using IoT	International Journal of Developments in Technology and Science	ISSN No. 2581-9119	Volume 4, Issue 3, Pages 32-37, June 2022	http://www.ijdts.com/volume4-issue-3.html
28	P. Raghava Reddy	Covid Alert System With Mask Detection & Temperture Sensing	International Journal of Developments in Technology and Science	ISSN No. 2581-9119	Volume 4, Issue 3, Pages 26-31, June 2022	http://www.ijdts.com/volume4-issue-3.html
29	K.Radhika	Smart Door Opening System For Non-Covid Audience	International Journal of Developments in Technology and Science	ISSN No. 2581-9119	Volume 4, Issue 3, Pages 20-25, June 2022	http://www.ijdts.com/volume4-issue-3.html