



Aditya College of Engineering & Technology

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Department of Electronics and Communication Engineering

R & D and Consultancy Activities

Academic Year 2020-2021

Research Publications (Journals)

Sl. No.	Name of the Faculty Author	Title of the Paper	Name of the Journal	ISB N/IS SN Num ber	Vol/ Mon th	SCIE/ UGC/ Scopu s	URL/D OI
1.	Dr. A B Siddique	Excitation dependence and independence of photoluminescence in carbon dots and graphene quantum dots: Insights into the mechanism of emission	Nanoscale	ISSN 2040 - 3372	Vol 13/ September	SCIE	doi.org/10.1039/D1NR04301C
2.	Dr. Vivek Rajpoot	Cross Layer Design Based Hybrid MAC protocol for Cognitive Radio Network	Physical Communication	ISSN 1874 - 4907	Vol 50, Nov, 2021	SCIE	https://doi.org/10.1016/j.phycom.2021.101524
3.	Dr. Vivek Rajpoot	Hybrid Common Control Channel based MAC Protocol with Proactive Handoff Scheme in Cognitive Radio Network	Wireless Personal Communication	ISSN 0929 - 6212	September 2021	SCIE	https://doi.org/10.1007/s11277-021-09092-w
4.	Dr. Vivek Rajpoot	Wide Dual Band Asymmetrical I-Shape Rectangular Microstrip Patch Antenna for PCS/UMTS/WiMAX/IMT Applications	Wireless Personal Communication	ISSN 0929 - 6212	August 2021	SCIE	https://doi.org/10.1007/s11277-021-08962-7

5.	Dr. Vivek Rajpoot	Filtering Antennas: A Technical Review	International Journal of RF and Microwave Computer-Aided Engineering	ISSN 1099 - 047X	Vol 31, July 2021	SCIE	https://doi.org/10.1002/mmce.22797
6.	Dr T.S. Karthik	Orthogonal stability and Nonstability of a Generalized Quartic Functional Equation in Quasi b-Normed Spaces	Journal of Function Spaces	2314 - 8896	Feb, 2021 Special Issue	SCIE	doi.org/10.1155/2021/5577833
7.	Dr R.V.V. Krishna	Colour image segmentation using soft rough fuzzy CMeans and Local Binary Pattern	Intelligent Automation And Soft Computing	2326 - 005X	Vol 26/ 2020	SCIE	https://www.techscience.com/iasc/v26n2/39943
8.	Dr T.S. Karthik	Certain classes of analytic functions connected with Q analogue of the Bessel function	Hindwai Journal of Mathematics	2314 - 4629	April, 2021 Special Issue	SCIE	https://www.hindawi.com/journals/jmath/2021/5587886/
9.	Dr D Kishore	Content-Based Image Retrieval System Based on Fusion of Wavelet Transform, Texture and Shape Features.	Mathematical Modelling of Engineering Problems	2369 - 0739	Vol 8, Feb 2021	Scopus	https://doi.org/10.18280/mmep.080114
10.	A. Arun Kumar Gudivada	Novel optimized tree-based stack-type architecture for 2n-bit comparator at nanoscale with energy dissipation analysis	The Journal of Supercomputing	1573 - 0484	Vol 77, Oct 2020	SCIE	https://link.springer.com/article/10.1007/s11227-020-03453-1

11.	R. Anil Kumar	Performance analysis of an efficient linear constellation precoded generalized frequency division multiplexing with index modulation in 5G heterogeneous wireless network	International Journal of Communication Systems	1074 - 5351	Vol 34, Mar 2021	SCIE	https://doi.org/10.1002/DAC.4732
12.	R. Anil Kumar	Performance Analysis of GFDM Modulation in Heterogeneous Network for 5G NR	Wireless Personal Communications	0929 - 6212	Vol 116, Sept 2020	SCIE	https://doi.org/10.1007/s11277-020-07791-4
13.	Rama Vasantha Adiraju	An extensive survey on finger and palm vein recognition system	Materials Today: Proceedings	ISSN 2214 - 7853	Vol.4 5 / Jan 2021	Scopus	https://doi.org/10.1016/j.matpr.2020.08.742
14.	Rama Vasantha Adiraju	A survey on lung CT datasets and research trends	Research on Biomedical Engineering	ISSN 2446 - 4740	Vol.3 7 / April, 2021	Scopus	https://doi.org/10.1007/s42600-021-00138-3
15.	P. Anantha Sravanthi	Road extraction using aerial images for future navigation	Materials Today: Proceedings	ISSN 2214 - 7853	Vol 47, June, 2020	Scopus	doi.org/10.1016/j.matpr.2021.05.537
16.	P.Ramesh Kumar	NSCT And Eigen Features Based Image Fusion	Solid State Technology	0038 - 111X	Volume 63, Issue 5, 2020	Scopus	https://solidstatetechnology.us/index.php/JSST/article/view/5907

17.	P.Ramesh Kumar	NFC based data monitoring and medication scheduling for patients in hospitals	Materials Today: Proceedings	ISSN 2214 - 7853	December 2020	Scopus	https://doi.org/10.1016/j.matpr.2020.12.479
18.	V. Preethi	The Transmission of Narrowband and Wideband Data Communications via Low-Voltage Power Lines Optimization	Journal of Nuclear Energy Science & Power Generation Technology	2325 - 9809	Volume 10 / 2021	Scopus	-
19.	S Venkata Kiran	Thermal Management in TSV based 3D IC Integration: A Survey	Materials Today: Proceedings	2214 - 7853	Volume 45, 2021,	Scopus	https://doi.org/10.1016/j.matpr.2020.08.621
20.	T.S. Karthik	NFC Based Data Monitoring and Medication Scheduling for Patients in Hospitals	Materials Today Proceedings	2214 - 7853	Online Jan, 2021	Scopus	doi.org/10.1016/j.matpr.2020.12.479
21.	T.S. Karthik	Implementation of Wireless home-based Automation and Safety Arrangements Using Power Electronic Switches	Materials Today Proceedings	2214 - 7853	Online Jan, 2021	Scopus	doi.org/10.1016/j.matpr.2020.11.539
22.	T.S. Karthik	On-Chip Cache Memory Protection with Tag Overflow Buffers and VLSI Implementation	Materials Today Proceedings	2214 - 7853	Dec, 2020	Scopus	doi.org/10.1016/j.matpr.2020.11.539

23.	A. Arun Kumar Gudivada	A Systematic review on full adder designs in Quantum dot cellular automata	Materials Today Proceedings	2214 - 7853	Vol 45, Aug 2020	Scopus	doi.org/10.1016/j.matpr.2020.08.475
24.	Venkata Kiran Sanipini	Deep Learning- based Image Super-resolution Algorithms – A Survey	International Journal of Computing and Digital Systems	2210 - 142X	Vol 11, Aug 2021	Scopus	https://dx.doi.org/10.12785/ijcds/110134
25.	A. Arun Kumar Gudivada	Design of Baugh- Wooley Multiplier in Quantum-dot Cellular Automata using a novel 1-bit Full Adder with Power dissipation analysis. SN Applied Sciences	SN Applied Sciences	2523 - 3971	Vol 2, April 2020	Scopus	https://link.springer.com/article/10.1007/s42452-020-2595-5
26.	Dr R.V.V. Krishna	NSCT and eigen features based image fusion	Solid state technology	0038 - 111X	Dece mber 2020	Scopus	https://solidstatetechnology.us/index.php/JSST/article/view/5907
27.	Rama Vasanth Adiraju	The Transmission of Narrowband and Wideband Data Communications via Low-Voltage Power Lines Optimization	Journal of Nuclear Energy Science & Power Generation Technology	2325 - 9809	Volu me 10 / 2021	Scopus	
28.	Gummarekula Sattibabu	Study of Delivery Drones: Scope & Challenges	Studia Rosenthaliana	ISSN NO: 1781 - 7838	Volu me 12, Dece mber 2020	-	-

29.	Gummarekula Sattibabu	Brief review on Unmanned Aerial Vehicles and its Applications	ADALYA JOURNAL	ISSN NO: 1301 - 2746	Volume 9, Issue 12, December 2020	-	https://doi.org/10.37896/aj9.12/008
30.	Sneha M Joseph	Physical Unclonable Function: A Succinct Study	ADALYA JOURNAL	ISSN NO: 1301 - 2746	September 2020	UGC	https://doi.org/10.37896/aj9.9/011
31.	P Swarnalatha	The Transmission of Narrowband and Wideband Data Communications via Low-Voltage Power Lines Optimization	Journal of Nuclear Energy Science & Power Generation Technology	2325 - 9809	Volume 10 / 2021	Scopus	=
32.	K. Parvateesam	Design and Implementation of Wireless Blended Astute Drone Drifter with VR Technology for Smart Cities	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (IJAREEIE)	2278 – 8875	Volume 9, October 2020	UGC	http://www.ijareeie.com/upload/2020/october/4_K_P_DRONE_NC_NEW.pdf
33.	B. V. Vijayasri	Speech enhancement using modified wiener filter based MMSE and speech presence probability estimation	International Journal of Informatics and Communication Technology (IJ-ICT)	2252 - 8776	Volume 9, Aug, 2020	UGC	https://zenodo.org/record/4243338#.YcqTnWhBy3A
34.	Dr. A B Siddique	Critical Investigation of Up-conversion and Dual Emission from Nitrogen Functionalized Graphene Quantum Dots	Elsevier: Journal of Luminescence	0022 - 2313	Volume 244, April 2022	SCIE	doi.org/10.1016/j.jlumin.2022.118763

35.	Dr. T. S. Karthik	The Transmission of Narrowband & Wideband & Data communication via Low-Voltage Power lines Optimization”	International Journal of Nuclear Energy Science & Power Generation Technology	ISSN: 2325-9809	10:9, 22 sept 2021	Scopus	-
36.	Dr. T. S. Karthik	Evaluate and Design the Mini-Hexagon Shaped Monopole Antenna Controller to Minimize Losses in the Unit	International Journal of Nuclear Energy Science & Power Generation Technology	ISSN: 2325-9809	10:9, 22 sept 2021	Scopus	-
37.	Dr. T. S. Karthik	Implementing an Effective and Secure Resource Architecture for VLSI Block Encryption	International Journal of Nuclear Energy Science & Power Generation Technology	ISSN: 2325-9809	10:9, 22 sept 2021	Scopus	-
38.	Dr. T. S. Karthik	Improvements in the performance of the Base station due to the use of MIMO in a Mobile Communication System	International Journal of Nuclear Energy Science & Power Generation Technology	ISSN: 2325-9809	10:9, 22 sept 2021	Scopus	-
39.	Dr. T. S. Karthik	Microstrip Patch Antenna for PCs & Wireless Networks	International Journal of Nuclear Energy Science & Power Generation Technology	ISSN: 2325-9809	10:9, 22 sept 2021	Scopus	-
40.	Dr. T. S. Karthik	Sustainable Energy Harvesting for Self-Powered Micro/Nanosystems Enabled by Nanotechnology	International Journal of Nuclear Energy Science & Power Generation Technology	ISSN: 2325-9809	10:9, 15 sept 2021	Scopus	-
41.	Dr. T. S. Karthik	Zero and Nonzero Mass Flux Effects of Bioconvective viscoelastic nanofluid over a 3-D Riga Surface with the swimming of gyrotactic	International Journal of Advances in Mathematical Physics,	ISSN: 1687-9139,	16 July 2021	SCIE	https://doi.org/10.1155/2021/9914134

42.	Dr. T. S. Karthik	MHD Flow of Thermally Radiative Maxwell Fluid Past a Heated Stretching Sheet with Cattaneo-Christov Dual Diffusion	International Journal of Mathematics	ISSN: 2314-4785	23 June 2021	SCIE	https://doi.org/10.1155/2021/5562667
43.	Dr. T. S. Karthik	A Comparative Study on Crack-Healing Ability of Al ₂ O ₃ /SiC Structural Ceramic Composites Synthesized by Microwave Sintering and Conventional Electrical Sintering	Advances in Materials Science and Engineering Journal under Processing and Applications of Advanced Functional Materials	ISSN: 1687-8442	22 June 2021	SCIE	https://doi.org/10.1155/2021/3170697
44.	Dr. T. S. Karthik	Investigation on Dielectric Properties of Press Board Coated with Epoxy Resin, Quartz, and Rice Husk Ash	Advances in Materials Science and Engineering Journal under Processing and Applications of Advanced Functional Materials	ISSN: 1687-8442	17, June 2021	SCIE	https://doi.org/10.1155/2021/983977042
45.	Dr. T. S. Karthik	A Brief Overview of Maximum Power Point Tracking Algorithm for Solar PV System	Journal: Materials Today, Elsevier,	ISSN: 2214-7853,	25 Feb 2021	Scopus	https://doi.org/10.1016/j.matpr.2021.01.220
46.	Dr. T. S. Karthik	Sentiment Analysis of Product Feedback Using Natural Language Processing	Journal: Materials Today, Elsevier	ISSN: 2214-7853	23 Feb 2021.	Scopus	https://doi.org/10.1016/j.matpr.2020.12.1061
47.	Dr. T. S. Karthik	Improved Learning Environment for Mathematics Course Through Blend Learning	Annals of the Romanian Society for Cell Biology Journal, Scopus	Volume-25, 1583-6258	May 2021.	UGC	-
48.	J. Srinivas Rao	Sentiment Analysis of Product Feedback Using Natural Language Processing	Journal: Materials Today, Elsevier	ISSN: 2214-7853	23 Feb 2021.	Scopus	https://doi.org/10.1016/j.matpr.2020.12.1061
49.	G. A. Arun Kumar	Design of area-efficient high speed 4 × 4 Wallace tree multiplier using	Journal: Materials Today, Elsevier	ISSN: 2214-7853	Vol 45, Sept 2020	Scopus	doi.org/10.1016/j.matpr.2020.07.67

		quantum-dot cellular automata					7
50.	K. Jayaram Kumar	Design of area-efficient high speed 4×4 Wallace tree multiplier using quantum-dot cellular automata	Journal: Materials Today, Elsevier	ISSN: 2214-7853	Vol 45, Sept 2020	Scopus	doi.org/10.1016/j.matpr.2020.07.677
51.	Durga Prasad Siddani	Design of area-efficient high speed 4×4 Wallace tree multiplier using quantum-dot cellular automata	Journal: Materials Today, Elsevier	ISSN: 2214-7853	Vol 45, Sept 2020	Scopus	doi.org/10.1016/j.matpr.2020.07.677
52.	G. A. Arun Kumar	Performance evaluation of noise coupling on Germanium based TSV filled material for future IC integration technique	Journal: Materials Today, Elsevier	ISSN: 2214-7853	Vol 45, Sept 2020	Scopus	doi.org/10.1016/j.matpr.2020.07.631
53.	G. A. Arun Kumar	A novel teeth junction less GATE all round FET for improving Electrical characteristics	Wiley: Silicon		Jan, 2021	SCIE	doi.org/10.1007/s12633-021-00983-y
54.	A. Arun Kumar Gudivada	Review on Quantum-dot Cellular automata full adders	Journal of study of Research	1781 - 7838	Vol 12, Nov, 2020	UGC	-