



# PRAGATI ENGINEERING COLLEGE

1-378, ADB Road, Surampalem-533437

(Approved by AICTE, Permanently Affiliated to JNTUK, KAKINADA & Accredited by NAAC with 'A' Grade)  
Recognized by UGC under sections 2(f) & 12(b) of the UGC Act, 1956)

## ELECTRONICS AND COMMUNICATION ENGINEERING DEPARTMENT

Date: 31-08-2024

### FACULTY PUBLICATIONS

#### Journals:

Academic year	SCI	SCOPUS	UGC	Other	Total
2024-2025	1		1		2
2023-2024		1	3	-	4
2022-23	1	1	9	-	11
2021-22		1	4	-	5
2020-21	1	1	5	-	7
2019-20	1	6	10		17
2018-19	-	2	13		15
2017-18	-	-	2	8	10
2016-17		2	5		7



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## ELECTRONICS AND COMMUNICATION ENGINEERING DEPARTMENT

### Faculty Publications

2024-2025

S.No	Title Of Journal	Name of The Author(s)	Name Of The Journal	Year Of Publication	ISSN Number
1	Power evaluation of MIPS Architecture Using Clock Gating Technique on FPGAs	Mr.V.Prasanth	International Journal Of VLSI design & Communication System	June 2024	DOI:10.5121/vlsic.2024.15302
2	Design And Implementation Of A High Speed And Delay Efficient Montgomery Multiplier Using Adaptive Hold Logic	Ms.Rubia Tasneem	Journal of Interdisciplinary Cycle Research	June 2024	0022-1945

### Faculty Publications

2023-2024

S.No	Title Of Journal	Name of The Author(s)	Name Of The Journal	Year Of Publication	ISSN Number
1	Enhanced non-alcoholic fatty liver detection computed tomography scan image analysis and noise reduction with morphological dilation	Dr.V.Radika	Arab Journal of Gastroenterology	2023	1687-1979
2	Hybrid chaotic map with L-shaped fractal Tromino for image encryption and decryption	Dr.S. R. V. Juvvanapudi	International Journal of Electrical and Computer Engineering	2024	2088-8708
3	Women's Empowerment Through Self-Help Groups: A Study Focused On Andhra Pradesh East Godavari District	Mrs.L.Gaviramma Dr.S.Koteswari	Dogo Rang Sang Research Journal	2023	2347-7180
4	Iot based smart accident detection for real time applications	Mr.Ch.Satish	The International Journal Of Analytical and experimental modal analysis	2023	0866-9367
5	Design and implementation of smart agriculture with efficient utilization of solar energy	Dr.Subodh panda	Science and technology and development	2023	0950-0707



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### Faculty Publications

**2022-2023**

S.No	Title Of Journal	Name of The Author(s)	Name Of The Journal	Year Of Publication	ISSN Number
1.	An efficient MAPSO Model for interference cancellation and optimal channel estimation in MIMO-OFDM System	Mr.Ch.Venkateswarlu	springer	2022	022-09955
2	Smart surveillance system using computer vision methods for smart cities with IOT enabled networks	Mr.G.S.sivakumar, Dr.V.Sailaja, Dr.A.Srinivas, Dr.Sanjthkumar Dash	Neuro quantology	2022	1303-5150
3.	Designe a smart Home management system using IOT with auto ventilation and water motor	Ms.RubiaTasneem	The international Journal of analytical and experimental modal analysis	2022-23	0866-9367
4.	Aurdino Based fire fighting robot with high Pressure water sprinkler	Mr.P.KrishnaChaitanya	Journal Of interdisciplinary Cyce Research	2022-23	0022-1945
5.	Bio medical application with variational level set classifier tool	Dr.V.Radika	International Journal Of innovative Research in Technology	2022	2349-6002
6	Application of optimum level set countour classifier tool for diagnosis of cowpox disease	Dr.V.Radika	World journal of advanced research reviews	2022	449-457
7.	An efficient FPGA implementation of Light weight Cryptographic based on AES for IOT applicaton	Dr.Sharon Rose Juvvanpudi	International Journal of Research and Analytical Reviews	2022-23	2349-5318
8.	Designe and development of real time health monitoring using IOT technology	Dr.V.Sailaja	Journal Of interdisciplinary Cycle Research	2022	0022-1945
9.	An Automated Framework for detecting change in the source code and test case change recommendation	Mr.G.S.Sivakumar	International Journal on Recent and innovation Trends in computing and communication	2022-23	2321-8169
10.	Spectrum sensing for cognitive Radio	Dr.V.Radika	Journal for Basic Science	2022-23	1006-8341
11.	Bio medical Applications using optimum stastical classifier tool	Dr.V.Radika Dr.A.Srinivas	AEGAEUM journal	2022	0776-3808



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### Faculty Publications

2021-2022

S.No	Title Of Journal	Name of The Author(s)	Name Of The Journal	Year Of Publication	ISSN Number
1.	optimal channel estimation and interference cancellation in MIMO-OFDM using MN-based improved AMO model	Mr.Ch.Venkates warlu	The Journal Of Supercomputing	2021	021-03983
2.	Recital Evaluation of registered image fusion algorithms on SIFT and improved Bi-Dimensional intrinsic mode function	Dr.V.Radika	International Journal of research and Analytical Reviews	2021-22	2348-1269
3.	Design and development of Automation Based gas temperature and fire detection system	Dr.V.Sailaja	Muktshabd Journal	2021-22	2347-3150
4.	An advanced IOT based self-security system for womens to avoid unlawful activities	Mrs.B.Vasantha Lakshmi	Journal Of Interdisciplinary Cycle Research	2021-22	0022-1945
5.	Design and implementation of real time human face detection and facial expression recognition by using convolution neural network	Mr.P.Krishna Chaitanya	Journal of Interdisciplinary cycle Research	2021-22	0022-1945



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### Faculty Publications

2020-2021

S.No	Title Of Journal	Name of The Author(s)	Name Of The Journal	Year Of Publication	ISSN Number
1	Proximity Beacons based Intelligent Transportation system for Smart city applicatons	Mr.G.S.Sivakumar	International Journal Of Advanced Science and Technology	2020-21	2005-4238
2	A Robust and secure time-domain interference cancellation using optimisation method in MIMO-OFDM system	Mr.Ch.Venkat eswarlu	International Journal Of electronics Security and Digital Forensic	2021	197-218
3	Designe And Implementation Of GPS and IOT Based Environmental Monitoring Moblile Robot	Mr.P.Krishna Chaitanya	International Journal Of analytical and experimental modal analysis	2021	0886-9367
4	Designing and Modeling of a portable system for detection of covid-19	Dr.S.Panda Dr.A.srinivas Dr.D.Nagesh	An International Bilingual peer reviewed referred research	2020-21	2348-2397
5.	Smart Agriculture management system using machine learning classification Algorithms	Mr.Ch.Satish	Alochana Chakra Journal	2020-21	2231-3990
6.	Human Activity Recognition using smartphones	Dr.V.Sailaja	Alochana Chakra Journal	2020-21	2231-3990
7.	A review of Digital Image Processing Agriculture General Applications	Dr.A.Srinivas B.Vasanth Lakshmi Dr.S.Panda Mrs.B.S.S.Vidya	DogoRangsang Research Journal	2020-21	2347-7180



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## ELECTRONICS AND COMMUNICATION ENGINEERING DEPARTMENT

### Faculty Publications

2019-2020

S.No	Name Of the Authors	TITLE Of The Paper	Name Of the Journal	ISSN	Month and Year
1	Dr.D.Nagesh	Design And Modelling Of Portable System For Detection Of Covid 19	Advanced Science Research	2320-0693	Jul-20
2	Dr.D.Natraj	Four element miniturized Microstrip Antenna Array using Defected Ground Structure for satellite Application	Journal of web engineering	5014-5019	vol 18 no 4(2019)
3	Mr.V.Prasanth	Dynamic Power optimization of 32 bit MIPS processor Using clock gating for low power applications	Journal of Recent technology and Engineering	2277-3878	volume-8 Issue-2 July 2019
4	Dr.D.Natraj	Defeated Ground Structure Based Two Element Microstrip Antenna Array with Reduced Mutual Coupling	International Journal Of Engineering and advanced Technology	2249-8958	volume 8 Issue 48, August 2019
5	Dr.D.Natraj	Compact Rhombus Ring Dual Frequency Microstrip Antenna For Wireless Applications	International Journal Of Innovative technology and exploring Engineering	2278-3875	volume-9, issue 283, December 2019
6	Dr.D.Natraj	Design and research Of Miniaturized Micro Strip Slot with and without Defeated Ground Structure	International Journal Of Recent Technology and Engineering	2277-3878	Volume-8, Issue-2s11, September 2019
7	Mrs.P.Sunitha	Improved Spectral subtraction with time recursive Noise estimation	International Journal of Engineering and advanced Technology	2249-8958	Aug-19
8	Dr.V.Radika	Performance Assessment of image Fusion Algorithms Using Statistical Measures in Slant Transform Domain	International Journal Of Recent Technology And Engineering	2277-3878	Volume-7 Issue-5 January 2019
9	Mr.Ch.Venkateswarlu	Smart Measures with Intelligent Data Collection On Safety Vehicle Using IOT	International Journal Of Management, Technolo	2249-7455	volume IX issue VIII, August



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## ELECTRONICS AND COMMUNICATION ENGINEERING DEPARTMENT

			gy And Engineering		2019
10	Mrs.P.Sunitha	Speech Enhancement based on Wavelet Thresholding the multitaper Spectrum combined with Noise estimation Algorithm	International Image, Graphics and signal Processing	44-45	september 2019 doi:10.5815/ijjgsp.2019.09.05
11	Mrs.P.Sunitha	Multitaper-MFCC features for speech Recognition under Noisy environments	International Journal of Modern Electronics and communication Engineering	2321-2152	volume no-7 Issue no-4, July 2019
12	Mrs.P.Sunitha	Multi band Spectral Subtraction combined with adaptive Noise Estimation	International journal of Recnt technology and engineering	2277-3878	Aug-19
13	Dr.V.Sailaja P.Sunitha B.Vasantha Lakshmi V.Prasanth	Winer Filtering in frequency Domain to enhance Speech Corrupted by colored Noise	International journal of Recnt technology and engineering	2277-3878	Sep-19
14	Ch.Venkateswarlu	Optimization for interference Cancellation in MIMO-OFDM system using Modified BAT Algorithm(MBA)	International journal of Recnt technology and engineering	2277-3878	volume-8 issue-4, November 2019
15	Mr.P.Krishna Chaitanya	An efficient and High Speed Approximate Multiplier Design using AHL and PPA	International Journal Of Management, Technology and Engineering	2249-7455	Volume IX, Issue VII, July 2019
16	Ms.Rubia Tasneem	Design and Development Of Home Automation And Theft Security System	A Journal Of Composition on Theory	0731-6755	Volume XIII, Issue VI, June 2020
17	Mrs G.V.Ujwala	Wallce Tree Multiplier with Koggestone adder using 15-4 compressor	IJAREEIE	2320-3765	Volume 9, Issue 5 May 2020





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### Faculty Publications

**2018-2019**

S.No	Name Of the Authors	TITLE Of The Paper	Name Of the Journal	ISSN	Month and Year
1	Mr.D.Natraj	Implementation Of Miniturized Microstrip Patch Antenna Without Slot and with & without Defected Ground Structure	Journal of Adv Research in Dynamical & control systems	1943-023x	15 <sup>th</sup> November 2018
2	Ms.Rubia Tasneem	Design Of Vitebi Algorithm Using PCAG	Universal review	2277-2723	Volume VIII issue VI June 2019
3	Mrs.P.Sunitha	Investigation on number of bands in Multi Brand Spectral Subtraction for Speech Enhancement and their effect on performance Measures	International Journal Of Modern Electronics and communication Engineering	2321-2152	Volume-6, issue no 5 september 2019
4	Ch.Lakshmi Narayana K.Pasipalana \rao U.Sandhya Alekhya K.chaitanyasri K.Satya devi	Developement Of Smart Health Monitring System for patient Using IOT Network	International Journal Of Technical Innovation in Modern Engineering & Science	2455-2585	Volume 5 issue 04 April 2019
5.	Mr.P.Krishna Chaitanya	An efficient Design of decimal multiplication of signed bit	International Journl Of Management, Technolog y and Engineering	2249-7455	Volume 8, Issue X October 2018
6	Mrs.K.Surya Kumari	A structured Visual Approach to GALS Modeling forb Communication Circuits	International Journl Of Management, Technolog y and Engineering	2249-7455	Volume 8, Issue X September 2018
7.	Ch.Lakshmi Narayana K.V.R Vara Prasad K.Pasialan Rao	Advanced Green house Monitoring using Raspberry pi and IOT	Journal of Emerging Technologies and Innovative Research	2349-5162	Volume 5 issue july 2018
8	V.Prasanth V.sailaja p.sunitha B.vasantha lakshmi	Design and implementation of low power 5 stage pipelined 32 bits MIPS processor using 28nm Technology	International Journal of Innovative Technology and Exploring Engineering	2278-3075	Volume-8 issue 4S2 March 2018
9	P.Prasanna Kumari	IOT based Smart solid	International Journal of	2250-	Volume-8





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		wastage management System	emerging Technology and Advanced Engineering	2459	issue 11 november 2018
10	Dr.V.Sailaja	Implementation of cloud based real –time Quality Aware ECG Monitoring System	International Journal of Research and Intellectual Computing	2455-0825	Volume-V issue 20 nov 2018
11	Ch.Lakshmi Narayana K. V.R.Varaprasad K.Pasipalan Rao	Advanced Green House Monitoring Using Raspberry Pi and IOT	Journal Of Emerging Technologies and Innovative Research	2349-5162	July 2018
12	Dr.V.Sailaja	Patient Health Monitoring System Through ARM Processor	International Journal Of Management, Technology And Engineering	2249-7455	Volume-8, Issue XII, December 2018
13.	P.Sunitha	Multiband Spectral Subtraction for speech Enhancement with Different Frequency Spacing Methods and their Effect On Objective Quality Measures	Image, Graphics and Signal Processing		DOI:10.5815/ijgsp.2019.05.06
14	P.Prasanna Kumari	Automatic Detection Of Tuberculosis using lung CT image and classification by Feed-forward Artificial Neural Network	International Journal of Management, Technology and Engineering	2249-7455	Volume IX, Issue III, March 2019
15	B.Vasantha Lakshmi	De-Noising Of Skin Cancer Images Using Wavelet Thresholding and Analysis of Statistical Performance Metrics	Journal Of Emerging Technologies and Innovative Research	2349-5162	May 2019 volume 6 Issue 5



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### Faculty Publications

2017-2018

S. No	Name Of the Authors	TITLE Of The Paper	Name Of the Journal	ISSN	Month and Year
1	D.Natraj	Compact Printed Elliptical Microstrip Patch with Defected Ground Structure(DGS) for wireless Applications	International Journal on Communication Antenna and Propagation	2039-5086	June-2018
2	P.Prasanna Kumari	Embedded System For Health Care Using Simble Board	International Journal Of General Science and Engineering	2349-8439	February-2018
3	V.Sailaja P.Sunitha B.Vasanth Lakshmi	Wavelet based text-Independent Speaker Identification using Finite Doubly Truncated Gaussian Mixture Model	International Journal Of Electrical and computational system	2348-117x	Volume 6, Issue 11 November 2017
4	G. S.Sivakumar M.Ravi Kumar K.Arunveer Kummar	Hierarchical Tree Clustering Technique for Device Localization Using Audio Fingerprinting	International Journal Of Scientific Engineering And Technology Research	2319-8885	Vol 07 Issue.02, February 2018
5	Ch.Lakshmi Narayana	Real time Anti-Terrorist Smart Robot Monitoring using Embedded System	International Journal for Research in Applied Science & Engineering Technology	2321-9653	Volume 6 Issue III March 2018
6	B.Vasanth Lakshmi	Novel Methodology for image Processing Using weighted Guided Filter and Hybrid Median filter	International Journal Of General Science and Engineering	2349-8439	Volume 6 Issue-6 June 2018
7	P.Krishna Chaitanya	Non linear Diffusion for Image resolution Enhancement	International Journal of applied Sciences, Engineering and Management	2320-3439	Volume 07 May 2018
8	G.S.Sivakumar M.Ravi Kumar K.Arunveer Kummar	Enhanced Fingerprinting and Trajectory prediction for IOT Localization in Smart Building	International Journal Of Innovative Technologies	2321-8665	Jan-June 2018
9	K.Arunveer Kumar G.G.Siva Kumar M.Ravi Kumar	Implementation QPSK Modulator On FPGA Using QCA Technology	International Journal Of VLSI System Design and communication System	2322-0929	Volume-6 Jan-dec 2018
10	V.Sailaja	Design Of efficient DA-Based Reconfigurable FIR Digital Filter on FPGA	International Journal of Applied Sciences., Engineering and Management	2320-3439	Vol-07 May 2018



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### Faculty Publications

**2016-2017**

S. No	Name Of the Authors	TITLE Of The Paper	Name Of the Journal	ISSN	Month and Year
1.	V.sailaja P.sunitha B.Vasantha Lakshmi	Inverted Mel Feature Set based Text-Independent	International Journal Of Computer Applications	0975- 8887	Volume -156 December 2016
2	K.Raghuram	High Secured Enabledd RFID Communication with Flexible Architecture Using Asymmetric Cryptography	International Journal Of Applied Sciences,Engineering and Management	2320- 3439	Vol 5 january 2016
3	B.Sudhir	Removal Of Fixed Value Impulse Noise Using Edge Preserving Algorithm	Journal Of Multidisciplinary Advanced Research trends	2349- 7408	January 2017
4.	G.Sri Lakshmi	Speech Enhancement Using Fast Adaptive Kalman Filter with Signal Subspace Algorithm	International Journal & Magazine of Engineering Technology,Manage ment and Research	2348- 4845	Volume no-3 2016
5.	G.S.Sivakumar K.V.Rajesh Kumar M.Ravi Kumar	An Efficient VLSI Architecture of a Reconfigurable Pulse-Shaping FIR Interpolation Filter for Multi- Standard DUC	International Journal Of Innovative Technologies	2321- 8665	December 2015
6.	G.S.Siva Kumar M.Ravi Kumar	Genuine Video Steganography Validation Using Combined Comparable Wavelet Transforms	International Journal Of Advanced and Innovative Research	2278- 7844	Volume-3 issue 12
7.	Ch.Lakshmi Narayana	Proposed System for Monitoring Street Transformers in Rural areas Using Embedded System	International Research Journal Of Engineering And Technology	2395- 0072	Volume 03- Oct 2016