



**VIVEKANANDHA COLLEGE OF
ENGINEERING FOR WOMEN
(AUTONOMOUS)**

Elayampalayam, Tiruchengode – 637205.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Faculty Publications Report (2018-2019)

S. No.	Name of the Authors	Name of the International Journal	Title of the Paper	Vol. Issue and Year	ISSN No. DOI	SCI / Scopus	Impact factor
1	Dr.D.Sasikala	International Journal of Enterprise Network Management	Power efficient digital circuits for ECG front end data acquisition mobile system	Vol. 9, Issue No. 3/4	1748-1252 Doi.org/10.1504/IJEN M.2018.09 4665	Scopus	0.03
2		International Journal of Pure and Applied Mathematics	High performance and low power 2D DWT architecture for identification of carotid asymptomatic plaque	Volume 120 No. 6 2018, 2087-2099	1314-3395	Scopus	0.55
3	Dr.D.Sasikala Dr. V.M. Senthil Kumar	International Journal of Pure and Applied Mathematics	Design of Fin FET Based Array Multiplier Using 14nm Technology	Volume 120 No. 6 2018, 2101-2114	1314-3395	Scopus	0.55
4	Dr. R. Vinothkanna	International Journal of Computers and Electrical Engineering (Elsevier)	Hybrid Ant Colony Optimization Model for Logo Based Document Image Retrieval using SIFT Local Descriptor	Vol.74, Feb 2019, pp.281-291	ISSN : 0045-7906	Scopus	1.747

5	Dr. R.Vinothkanna	International Journal of Intelligent Unmanned Systems, 2019	A wireless IOT system towards gait detection technique using FSR sensor and wearable IOT devices	Accepted	DOI: IJIUS- 01-2019-0005	Scopus	-
6	Dr. R.Vinothkanna	Springer Professional	A novel hidden Markov model-based adaptive dynamic time warping (HMDTW) gait analysis for identifying physically challenged persons, 2019	Accepted	DOI 10.1007/s00500-019-04108-x, ISSN 1432-7643	Scopus	-
7	Mr. S. Gnanamurugan	Microprocessors and Microsystems	Performance analysis of rectangular microstrip patch antenna for wireless application using FPGA	Vol.68 Apr 2019, PP 11-16	doi.org/10.1016/j.micpro.2019.04.006 ISSN0141-9331	SCI & Scopus	1.049
8	Ms. M. Hemalatha	International Journal of Pure and Applied Mathematics	Design of FinFET based 8-Transistor approximate adder for effective area and low power	Volume 120 No. 6 2018, 2127-2137	1314-3395	Scopus	0.55
9	Ms.M.Udhyavani	International Journal of Pure and Applied Mathematics	Design of high speed and energy efficient voltage level shifter	Volume 120 No. 6 2018, 2139-2149	1314-3395	Scopus	0.55
10	Mr. V. Karthikeyan	International Journal of Pure and Applied Mathematics	A Quadratic Spline wavelet basis on low power ECG signal scrutiny for	Volume 120 No. 6 2018, 2151-2166	1314-3395	Scopus	0.55

			biomedical application				
11	Mr.M.Gunasekaran	International Journal of Pure and Applied Mathematics	Design of SRAM using resonant supply boosting in low voltage	Volume 120 No. 6 2018, 2167-2181	1314-3395	Scopus	0.55
12	Ms. S.Kokila	International Journal of Pure and Applied Mathematics	Feature based video stabilisation using full search motion estimation	Volume 120 No. 6 2018, 2237-2253	1314-3395	Scopus	0.55
13	Mr. M.Balasubramani	International Journal of Pure and Applied Mathematics	An enhanced context adaptive variable length coding for H.264	Volume 120 No. 6 2018, 2183-2196	1314-3395	Scopus	0.55
14	Mr.P.Nagarajan	International Journal of Pure and Applied Mathematics	An Effective Low Power High Gain Op-Amp Design For Bio-Medical Application	Volume 120 No. 6 2018, 2197-2208	1314-3395	Scopus	0.55
15	Mr. M. Thiruppathi Mr.R. Prabhakar	International Journal of Pure and Applied Mathematics	Implementation of an area efficient 32nm FinFET dynamic comparator for flash ADC	Volume 120 No. 6 2018, 2209-2220	1314-3395	Scopus	0.55
16	Mr. S. Gnanamurugan	International Journal of Pure and Applied Mathematics	High speed performance and energy efficient 128-bit FinFET priority encoder	Volume 120 No. 6 2018, 2221-2235	1314-3395	Scopus	0.55
17	Mr. T.Jayasimha	International Journal of Pure and Applied Mathematics	Design Of Low Pass Filter For An Effective ECG Detection	Volume 120 No. 6 2018, 2255-2266	1314-3395	Scopus	0.55

			Using Low Power Dual Gate MOSFET				
18	Mr.V.Karthikeyan	Bio-Medical Engineering and Materials	An Enhanced Miller Current Circuit Based Readout Interface Device Unit for IVUS Apparent Quality Images in Diagnostic Applications	Accepted	0959-2989	SCI & Scopus	0.55



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Faculty Publications Report (2018-2019)-INTERNATIONAL JOURNALS

S. No.	Name of the staff	Title of the paper	Name of the Journal/ Book	Vol, Issue, and Year
1	Mr.V.Karthikeyan	Arm Based MPSOC ECU Architecture for Secure, Reliable and Real –Time Self-Propelled CPS	Asian Journal Applied Science and Technology	Vol.2 Issue-3 July – Sep 2018
2	Mr.V.Karthikeyan	Noise Reduction for Armature Radio Voice Data and CW Operation using Audio Noise Filters	Asian Journal Applied Science and Technology	Vol.2 Issue-3 July – Sep 2018
3	Dr.D.Sasikala	A Survey on Design of VLSI Architecture for Barrel Distortion Correction in Images	Indo – Iranian journal of Scientific Research	Volume 2 , Issue 4, Oct-Dec 2018
4	Ms.M.Hemalatha	Formulation of Ecofriendly Detergent Powder Using Paddy Husk Ash	Asian Journal of Applied Science and Technology	Volume 2, Issue 4, Oct-Dec 2018

5	Mr. V. Karthikeyan	A Review on IoT based Healthcare Monitoring	Asian Journal of Applied Science and Technology	Volume 2, Issue 4, Oct-Dec 2018
6	Mr. M.Balasubramani	A Study on Identification of Unhealthy Plant Leaves using Image Processing with PCA, LDA Techniques	Asian Journal of Applied Science and Technology	Volume 2, Issue 4, Oct-Dec 2018
7	Mr.P.Nagarajan	Analysis of Digital Image Watermarking and its Application	Asian Journal of Applied Science and Technology	Volume 2, Issue 4, Oct-Dec 2018
8	Mr.R.Prabhakar	Review on Noise-Power-Area Optimized Biosensing Front End for Wireless Body Sensor Nodes and Medical Implantable Devices	Asian Journal of Applied Science and Technology	Volume 2, Issue 4, Oct-Dec 2018
9	Mr.G.Ravikumar	Collision Avoidance Asymptotic Challenging of Ubiquitous in WSN	Asian Journal of Applied Science and Technology	Volume 2, Issue 4, Oct-Dec 2018
10	Mr. S.Gnanamurugan	Design of 4:2 Compressor for Parallel Distributed Arithmetic FIR Filter	Indo-Iranian Journal of Scientific Research (IJSR)	Volume 2, Issue 4, Oct-Dec 2018
11	Dr.S.Jayachitra	A Study on Algorithm for Compression and Decompression of Embedded Codes using Xilinx	Indo-Iranian Journal of Scientific Research (IJSR)	Volume 2, Issue 4, Oct-Dec 2018

12	Mr.P.Sasikumar	Review on an Ultralow Power Subthreshold CMOS Voltage Reference without Requiring Resistors or BJTs	Asian Journal of Applied Science and Technology	Volume 2, Issue 4, Oct-Dec 2018
13	Dr.E.Kamalavathi	Execution Analysis of Lynn Wavelet Filter Algorithms for Removal of Low Frequency Noise from ECG Signal	Indo-Iranian Journal of Scientific Research (IIJSR)	Volume 2, Issue 4, Oct-Dec 2018
14	Mr.S.Manikandan	FIR Filter Realization for Fixed and Variable Coefficient A Survey	Asian Journal of Applied Science and Technology	Volume 2, Issue 4, Oct-Dec 2018
15	Mr.R.Selvaraj	Review on Load Balancing Optimal Network through Hybrid Switching	Asian Journal of Applied Science and Technology	Volume 2, Issue 4, Oct-Dec 2018
16	Mr.V.Karthikeyan	Noise Reduction for Armature Radio Voice Data and CW Operation using Audio Noise Filters	Asian Journal Applied Science and Technology	Vol.2 Issue-3 July – Sep 2018(2456-883X)
17	Dr. R.Vinothkanna,	A Novel Logo-Based Document Retrieval using Hybrid Fuzzy based CSA	International Journal of Innovative Technology and Exploring Engineering	Vol.8, Issue.5, March 2019, pp.255-258
18	Mr.S.Gnanamurugan	On the Performance of Rectangular Microstrip Patch Antenna using Rogers RT/Duriod 5880	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	Volume-8 Issue-5S March, 2019



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1	Dr.T.S.Jeyalaseetha	Smart IOT Device for Pillbox Reminder and Monitor Using GSM	International Journal of Advanced Science and Technology(IJAST)	Vol. 29, No. 5, (2020), pp. 6442 – 6447 May 2020	ISSN:2005-4238 IJAST	Scopus	-
2	Dr.R.Vinothkanna	Novel Hidden Markov Model Based adaptive Dynamic Time Warping(HMDTW) gait analysis for identifying physically challenged persons	Soft Computing Springer	June- 2019	DOI 10.1007/s00500-019-04108-x, ISSN 1432-7643 (ICCVBIC-2019)	SCI&SCOPUS	2.7
3	Dr.R.Vinothkanna	A wireless IOT system towards gait detection technique using FSR sensor and wearable IOT devices”.	International Journal of Intelligent Unmanned Systems, 2019, Article DOI: IJIUS-01-2019-0005, Article ID: IJIUS630053	July 2019	DOI: IJIUS-01-2019-0005, Article ID: IJIUS630053	SCOPUS	1.17

4	Dr.R. Vinothkanna	A Novel Logo-Based Document Retrieval using Hybrid Fuzzy based CSA”.	International Journal of Innovative Technology and Exploring Engineering (IJITEE).	Vol.8, Issue.5, March 2019, pp.255-258. (Scopus Indexed)	ISSN:2278-3075(Online) Reg. No	SCOPUS	0.1
5	Dr.R. Vinothkanna	“A Secure Steganography Creation Algorithm for Multiple File Fomats”,	Journal of Innovative Image Processing (JIIP)	Vol.1, Issue.1, 2019, pp.20-30. (Nov 2019)		SCI&SCOPUS	2.378
6	Dr.R. Vinothkanna	“Cloud Based Internet of Things for Smart Connected Objects”.	Journal of ISMAC	Vol.1, Issue.2, 2019, pp.31-39.	ISSN: 2582-1369	SCI&SCOPUS	-
7	Dr.R. Vinothkanna	Hybrid Ant Colony Optimization Model for Logo Based Document Image Retrieval using SIFT Local Descriptor”.	International Journal of Computers and Electrical Engineering (Elsevier)	Vol.74, Feb 2019, pp.281-291.(Anna University Annexure)	ISSN: 0045-7906	SCI&SCOPUS	2.189
8	Dr.R. Vinothkanna	A wireless IOT system towards gait detection technique using FSR sensor and wearable IOT devices	International Journal of Intelligent Unmanned Systems	Vol. 8 No. 1, 2020	pp. 43-54 DOI 10.1108/IJUIS-01-2019-0005	SCI&SCOPUS	1.17
9	Dr.R. Vinothkanna	Mine Depth Analyzer for Safety With Intelligence Swarmsbots using OpenCV with TensorFlow	International Journal of Engineering Research & Technology (IJERT)	Volume 8, Issue 08	ISSN: 2278-0181	SCOPUS	0.5

10	Ms.A.Mariyammal	Design and Enchantment of Dynamically Reconfigurable Bus Enhanced NOC Architecture for Emerging Digital System	IJEAT - International Journal of Engineering and Applied Technology (SCOPUS indexed)	Sept-2019	ISSN NO:2249-8958	SCOPUS	1.0
11	Dr.S.Jayachitra	An Enhanced Method of Secured Energy - Efficient Data Communication in Manet for Emergency Rescue Operation	IJEAT - International Journal of Engineering and Applied Technology	Dec - 2019	ISSN NO:2249-8958	SCOPUS	1.0
12	Dr.S.Kokila	Intellectual homography based global motion estimation for blocks in video coding	Journal of physics: a conference series Vol 1362,conference 1	Nov 2019	DOI NO: 10.1088/1742-6596/1362/1/012066	SCOPUS	0.540
13	Dr.S.Kokila	Brain Tumor Detection by using Fcm Algorithm	International Journal of Engineering and Advanced Technology (IJEAT)	April 2020	ISSN: 2249 – 8958, Volume-9 Issue-4,	SCOPUS	-
14	Mr.K. Satheshkumar	AC Power Line Carrier Data Communication Network for House/ Office	International Journal of Engineering Research & Technology (IJERT)	MAY 2020	ISSN: 2278-0181	SCOPUS	0.54
15	Mr.K. Satheshkumar	EE-FMDRP: energy efficient-fast message distribution routing protocol for vehicular ad-hoc networks	Journal of Ambient Intelligence and Humanized Computing	Jan 2020	ISSN 1868-5137 DOI 10.1007/s12652-020-01730-8	SCOPUS	3.42

16	Mr.S.Ravi	Artifacts Prediction in 2D Ultrasound images using Median Filter and Artificial Neural Networking	TEST (Test engineering and management)	Apr 2020	ISSN: 0193 - 4120,	SCOPUS	1.205
17	Ms.T.Manikandan & Mr.P.Surendar Mr.Tamilmani	Cognitive State Analysis System to Ensure Safety of Women and Elderly	International Journal of Recent Technology and Engineering (IJRTE)	May 2020.	ISSN: 2277-3878	SCI	-
18	Mr.P.Nagarajan Ms.V.Janani	Accident Prevention Control System	International Journal of Scientific & Technology Research	Apr 2020	ISSN 2277-8616	SCI/SCOPUS	-
19	Dr.P.T Kalaivaani	Savvy Agricultural Project Using IoT	International Research Journal of Engineering and Technology	May 2020.	Vol.7, Iss.5, (IMPF:7.529)	SJI Indexed & UGC approved	
20	Dr.P.T Kalaivaani	A Novel Intelligent Approach to Simulate the blast- induced flyrock based on RFNN combined with PSO	Engineering with Computers	2019	https://doi.org/10.1007/s00366-019-00707-2,	Updated List & Annexure -I	3.938
21	Dr.P.T Kalaivaani	Design and implementation of low-power CMOS bio signal amplifier for active electrode in biomedical application using subthreshold biasing strategy	International Journal of Wavelets, Multiresolution and Information Processing,	2019	Vol. 17, No.4 (2019), https://doi.org/10.1142/S0219691319410170	Updated List & Annexure -I	-

22	Dr.P.T Kalaivaani	Performance Analysis of Various Hierarchical Routing Protocols Using Spatial Correlation	Measurement	2019	Vol 144,(2019), pp.44-51. https://doi.org/10.1016/j.measurement.2018.11.084 .	3.364	3.364
23	Dr.P.T Kalaivaani	Resource Key Distribution and Allocation based on Sensor Vehicle Nodes for Energy Harvesting in Vehicular ad hoc networks for Transport Applications	Journal of Super Computer	2019	http://doi.org/10.1007/s11227-019-03069-0 . ISSN 0920-8542.	2.469	2.469



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1	Dr.S.Jayachitra	Automatic Ration Distribution System Using IoT with Anti-theft and Anti-spill alarm	International Journal of Engineering Research and Applications (UGC)	May-2020
2	Dr.E.Kamalavathi	Boiler Overflow ALET System using IoT in Paper Industry	International Journal of Engineering Research & Technology (IJERT)	Special issue-2020
3	Mr.R.Selvaraj	Design of 16*16 Multiplier by Using the Modified Booth Multiplication Algorithm	Studies in Indian Place Names (UGC)	Apr 2020
4	Dr.S.Kokila	Video Compression using ARPS and Fast Discrete Curvelet Transform For Mobile Devices	SYLWAN-English edition – Printed in Poland (Anna University annexure journal)	June 2020



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S.NO	Name Of The Faculty	Title of the Paper	Name of the Journal	Vol.Issue,Year	ISSN No. DOI	SCI / Scopus	Impact Factor
1	Dr.S.Kokila	Video Compression using ARPS and Fast Discrete Curvelet Transform For Mobile Devices	SYLWAN-English edition – Printed in Poland	June 2020	164 (6). ISI Indexed	Anna University annexure journal	0.624
2	Mr.S.Gnanamurugan Ms.A.Mariyammal	FPGA Application Using Compact Microstrip Patch Antenna RT/ DUROID 5880 for Wireless Communication	Gedlag&Organisatie Review	June 2020 Volume33, Issue 02	0921-5077	Web of Science/S CI/Scopus	0.08
3	Dr.R.Vinothkanna	A novel two-stage optimized model for logo-based document image retrieval based on a soft computing framework	Soft Computing A Fusion of Foundations, Methodologies and Applications	Soft Computing https://doi.org/10.1007/s00500-020-05192-0(0123456789).,-volIV)(01234567890	ISSN 1432-7643	SCI/Scopus	2.988
4	Dr.S.Jayachitra	Investigating on automated Surveillance for Human identification and Recognition using face and IRIS Biometric	Bioscience Biotechnology Research Communication	Vol No 13 / No (6) / 2020 BBRC 11 /07 /2020	ISSN : 0974-6455 Online ISSN : 2321-4007	Web of Science	-

5	Dr.P T. Kalaivani	Design and Implementation of Low Power Bio Signal Sensors for Wireless Body Sensing Network Applications Technology based Wireless Body Sensor Networks in Medical application	Microprocessor and Microsystems		-	Received Acceptance Elsevier. SCI	1.161
6	Dr.M.Malathi	A Novel Computationally simple K-Means Segmentation model for Retinal Image Segmentation	A Journal of the History of Ideas and Culture	Vol No 38 / No .2	ISSN ;0337-743x	UGC	-



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2	Dr.R.Vinothkanna	“Mine Depth Analyzer for Safety with Intelligence Swarmbots using OpenCV with Tensor Flow”,	International Journal of Engineering Research & Technology	Vol.8, No.8, 2020, pp.01-06 June 2020
3	Dr. E. Kamalavathi	Boiler Overflow ALET System using IoT in Paper Industry	International Journal of Engineering Research & Technology (IJERT)	Volume 8, Issue 08, 2020
4	Dr.T.S. Jeyali Laseetha	Beamforming using particle swarm optimization	International Journal of Engineering Research & Technology (IJERT)	Volume 8, Issue 08, 2020
5	Mr.M.Balasubramani	Classroom Attendance Monitoring System Using Webcamera	International Journal For Research & Development In Technology	Volume-14,Issue-1(Jul-20)
6	Mrs.S.Kokila	Review paper on Fault Detection Bearing	PUNE RESEARCH TIMS. An international Journal of Contemporary Studies	August-2020

7	Dr.R.Saravakumar	Proficient Energy Efficient A2S LEACH Technique in Wireless Sensor Networks	International Journal of Engineering and Advanced Technology	June 2020
8	Dr.P T. Kalaivaani	Fluid / Gas Control of Boiler Using Stepper Motor Control Via GSM',	International Journal of Creative Research Thoughts	2020