

**VELAMMAL COLLEGE OF ENGINEERING AND TECHNOLOGY  
MADURAI**

**Published research papers in the Journals during the last five years**  
**Department of Electronics and Communication Engineering**

<b>S. No.</b>	<b>Title of the Paper</b>	<b>Name of the Author's</b>	<b>Name of the Journal</b>	<b>Year of Publication</b>
1.	Time series analysis of multispectral satellite images using game theory classifier	S Gandhimathi Alias Usha <b>Vasuki. S</b>	Optik	2021
2.	An efficient algorithm for tracking and counting pedestrians based on feature points in video surveillance applications	Kanagamalliga. S <b>Vasuki. S</b>	Journal of Intelligent & Fuzzy Systems	2019
3.	An Ensemble of Deep CNNs for Classification of Breast Histopathology Images	Dhivya. P <b>Vasuki. S</b>	International Journal of Applied Engineering Research	2019
4.	Medical Image Registration in Clinical Diagnosis: An Introduction	Swarnambiga. A <b>Vasuki. S</b>	Medical Image Processing for Improved Clinical Diagnosis	2019
5.	Non-Subsampled Contourlet Transform-Based Effective Denoising of Medical Images: Denoising of Medical Images Using Contourlet	Karthikeyan. P <b>Vasuki. S</b> Karthik. K	Medical Image Processing for Improved Clinical Diagnosis	2019
6.	A Comparative Study of Medical Image Retrieval Using Distance. Transform. Texture. and Shape	Swarnambiga. A <b>Vasuki. S</b>	Medical Image Processing for Improved Clinical Diagnosis	2019
7.	A novel method for segmentation and change detection of satellite images using proximal splitting algorithm and multiclass SVM	S Gandhimathi Alias Usha <b>Vasuki. S</b>	Journal of the Indian Society of Remote Sensing	2019
8.	An Ensemble Approach for Classification of Breast Histopathology Images	Dhivya. P <b>Vasuki. S</b>	IETE Journal of Research	2019
9.	Medical Image Registration in Clinical Diagnosis	Swarnambiga. A <b>Vasuki. S</b>	Medical Image Processing for Improved Clinical Diagnosis.	2019
10.	Contour-based object tracking in video scenes through optical flow and gabor features	Kanagamalliga. S <b>Vasuki. S</b>	Optik	2018

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11.	Maximin distance based band selection for endmember extraction in hyperspectral images using simplex growing algorithm	G.Veera Senthil Kumar <b>Vasuki. S</b>	Multimedia Tools and Applications	2018
12.	Wavelet based MRI brain image classification using radial basis function in SVM	Dhivya. P <b>Vasuki. S</b>	2018 2nd International Conference on Trends in Electronics and Informatics (ICOEI)	2018
13.	Design and Development of Laplacian Pyramid Combined with Bilateral Filtering Based Image Denoising	Karthikeyan. P <b>Vasuki. S</b> Karthik. K Sakthivel. M	International Conference on Soft Computing Systems	2018
14.	Improved segmentation and change detection of multi-spectral satellite imagery using graph cut based clustering and multiclass SVM	S .Gandhimathi Alias Usha <b>Vasuki. S</b>	Multimedia Tools and Applications	2018
15.	Unsupervised change detection of multispectral imagery using multi level fuzzy based deep representation	S .Gandhimathi Alias Usha <b>Vasuki. S</b>	Journal of Asian Scientific Research	2017
16.	Clustering based band selection for endmember extraction using simplex growing algorithm in hyperspectral images	<b>Vasuki. S</b>	Multimedia Tools and Applications	2017
17.	Firefly based band selection for hyperspectral image classification	Keerthana. K G.Veera Senthil Kumar <b>Vasuki. S</b>	International journal of research in Advanced Technology	2016
18.	Hybrid approach of efficient decision-based algorithm and fuzzy logic for the removal of high density salt and pepper noise in images	Karthikeyan. P <b>Vasuki. S</b>	Journal of Circuits. Systems and Computers	2016
19.	HSCT-An Efficient Framework for Security in Medical Imaging using Hybrid Stego-Crypt Technique	Prabagar. S <b>Vasuki. S</b>	Asian Journal of Research in Social Sciences and Humanities	2016
20.	Multiresolution joint bilateral filtering with modified adaptive shrinkage for image denoising	Karthikeyan. P <b>Vasuki. S</b>	Multimedia Tools and Applications	2016
21.	Efficient decision based algorithm for the removal of high density salt and pepper noise in images	Karthikeyan. P <b>Vasuki. S</b>	Journal of Communications Technology and Electronics	2016
22.	Foreground object detection using expectation maximization based effective gaussian mixture model	Kanagamalliga. S <b>Vasuki. S</b> Shanmugapriya. M	Middle-East J Sci Res	2016
23.	Optic Disk and Optic Cup Segmentation for Glaucoma Screening	Veerasenthilkumar. G <b>Vasuki. S</b> Rajkumar. R	Artificial Intelligence and Evolutionary Algorithms in	2015

S. No.	Title of the Paper	Name of the Author's	Name of the Journal	Year of Publication
			Engineering Systems	
24.	Screening diabetic retinopathy in developing countries using retinal images	Raja. Siva Sundhara <b>Vasuki. S</b>	Applied Medical Informatics.	2015
25.	Automatic detection of blood vessels in retinal images for diabetic retinopathy diagnosis	Siva Sundhara Raja. D <b>Vasuki. S</b>	Computational and mathematical methods in medicine	2015
26.	An Enhanced and Secured Wireless Environment using Swept Frequency Capacitive Sensing	<b>Babu Karuppiah. A.</b> RajaRaja. R. Shiny Ponmani.S Meenkashi. C	Asian Journal of Information Technology	2017
27.	Secured Routing Using Cryptographic Techniques in Wireless Sensor Networks	<b>Babu Karuppiah. A</b>	International Journal of Research in Advanced Technology – IJORAT	2015
28.	Energy Efficient Technique for Defense Against Black Hole Attacks in Wireless Sensor Networks	<b>Babu Karuppiah. A</b>	International Journal of Research in Advanced Technology – IJORAT	2015
29.	Reconfigurable Antennas for Advanced Wireless Communications: A Review	K. Kavitha	Wireless Personal Communication	2021
30.	Design Of Microstrip Fractal Antenna For Vehicle To Vehicle Communication	<b>K. Kavitha</b> R. Praveen Ganapathy	Journal of Xidian University	2020
31.	Metamaterial Superstrate Antenna Design with Gain Enhancement	<b>K.Kavitha</b>	International Journal of Applied Engineering Research	2019
32.	Triple Band Rectifier Design for RF Energy Harvesting in Wireless Sensor Networks	<b>K. Kavitha</b>	International Journal of Innovative Technology and Exploring Engineering	2018
33.	Self Complementary Frequency Independent Triple Band Sinuous Antenna Array For Wireless Applications	<b>K. Kavitha</b>	Progress In Electromagnetic s Research Letters	2018
34.	Design of a Fork Shaped Frequency Reconfigurable Antenna for WLAN Applications	<b>K. Kavitha</b>	International Journal of Pure and Applied	2018

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			Mathematics	
35.	A survey on fractal antenna design	<b>K.Kavitha</b>	International Journal of Pure and Applied Mathematics	2018
36.	Contourlet based Hyperspectral Image Classification	<b>K Kavitha</b>	Journal of Remote Sensing GIS & Technology	2018
37.	Design of H-Shaped Microstrip Hybrid Patch Antenna for C-Band Applications	<b>K Kavitha</b>	International Science and Technology Journal	2018
38.	Design of Koch Fractal Bowtie Antenna for Multiband Applications	<b>K Kavitha</b>	Journal of Communication Engineering and Its Innovations	2018
39.	Performance of various Wavelet Based Features on AVIRIS Data Classification	<b>K Kavitha</b> Kayalvizhi	Journal of Remote Sensing GIS & Technology	2018
40.	Triple Band Rectifier Design for RF Energy Harvesting in Wireless Sensor Networks	<b>K Kavitha</b>	International Journal of Innovative Technology and Exploring Engineering	2018
41.	Design of a Sierpinski Gasket Fractal Bowtie Antenna for Multiband Applications	<b>K Kavitha</b>	International Journal of Applied Engineering Research	2017
42.	Design of Rounded Bowtie Antenna for Indoor Applications	<b>K Kavitha</b>	International Journal of Science and Research	2017
43.	CPW fed compact UWB fractal antenna design	<b>K Kavitha.</b> KS Anitha	EPR International Journal of Research and Development (IJRD)	2017
44.	Single Band MIMO Antenna For WLAN/Wi-MAX Application	<b>K.Kavitha.</b>	International Research Journal of Engineering and Technology	2017
45.	PSO inspired Hyperspectral Image Classification	<b>K Kavitha</b>	International Journal of Engineering Research in Electronics and Communication Engineering	2017

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46.	Design of dual band MIMO antenna for Wlan/Wimax application	<b>K Kavitha.</b>	International Journal of Research in Electronics and Communication Technology	2016
47.	Prevalence of Metabolic Syndrome Among Adults (20 to 40 Years of Age) in Coimbatore	<b>K Kavitha.</b>	International Journal of Nutrition and Food Sciences	2015
48.	Hyperspectral Image Classification Using Support Vector Machine in Ridgelet Domain	<b>K.Kavitha</b>	National Academy Science Letters	2015
49.	A 2D Unified Subthreshold Drain Current Investigation for Junctionless Cylindrical Surrounding Gate (JCSG) Silicon Nanowire Transistor	S Manikandan. <b>P.Suveetha</b> <b>Dhanaselvam.</b> MK Pandian	Silicon	2021
50.	A 2D analytical modeling and simulation of double halo triple material surrounding gate (DH-TMSG) MOSFET	<b>PSuveetha</b> <b>Dhanaselvam.</b> P Vimala. TS Samuel	Silicon	2021
51.	Pressure Sensors Using Si/ZnO Heterojunction Diode	<b>P Suveetha</b> <b>Dhanaselvam.</b> D Sriram Kumar. VNRamakrishna K Ramkumar. NBBalamurugan	Silicon	2021
52.	A quasi 2D Electrostatic Potential and Threshold Voltage model for Junctionless Triple Material Cylindrical Surrounding Gate Si nanowire	MKP S.Manikandan. <b>P.Suveetha</b> <b>Dhanaselvam</b>	J.Nanoelectron.O ptoelectron	2021
53.	A Novel Trident shaped Ultra wide Band Textile Antenna	<b>Rajeswari P.</b> Suresh Kumar N. Gobinath A	International Journal of New Innovations in Engineering and Technology	2020
54.	A Compact 2 element planar Canonical MIMO antenna design for IoT Applications	Rajeswari P et.al	Journal of Xidian University	2020
55.	Performance Analysis of Microstriplines Interconnect Structure with Novel Guard Trace as Parallel Links for High Speed Dram Interfaces	<b>Rajeswari P</b> Gobinath A	International Journal of Wireless Personal Communications	2020
56.	Design of Koch Fractal Antenna for Wireless Applications	<b>RajeswariP.et.al</b>	International Journal of Engineering Research & Technology	2017

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57.	Design of Ultra wideband Textile Antenna for Wearable Applications	<b>RajeswariP</b> .et.al	International Journal of Engineering Research & Technology	2017
58.	Analytical and experimental study on suppression of electromagnetic interference on high speed printed circuit board for wireless communication systems	<b>Rajeswari P</b> Raju S	International Journal of Wireless Personal Communications	2016
59.	Comparative study of crosstalk reduction techniques in RF printed circuit board using FDTD method	<b>Rajeswari P</b> Raju S	International Journal of Antennas and Propagation	2015
60.	A Novel Trident Incurvature Shape DGS to Suppress Radiated Emission in High Speed Printed Circuit Board	<b>RajeswariP</b> .et.al	Circuits and Systems	2016
61.	Far end crosstalk reduction between parallel microstriplines using U shaped guard trace	<b>RajeswariP</b> .et.al	ARPN Journal of Engineering and Applied Sciences	2016
62.	Optimization of Electrical Parameters for Crosstalk Reduction between Parallel High Speed Interconnects Using Particle Swarm Optimization	<b>RajeswariP</b> .et.al	International Journal of Electrical. Electronics and Computers	2016
63.	Signal Integrity Analysis of High Speed Interconnects In SATA Connector	<b>RajeswariP</b> .et.al	International Journal of Applied Engineering Research	2015
64.	Crosstalk Reduction on Coupled Microstrip To Three Line Coupled Microstrip Transition Using Mitering Configuration	<b>RajeswariP</b> .et.al	International Journal of Applied Engineering Research	2015
65.	LMMSE Channel Estimation Algorithm Based on Channel Autocorrelation Minimization for LTE- Advanced with Adaptive Guard Interval	<b>Kavitha. K &amp;</b> Manikandan. S	Wireless Personal Communications	2015
66.	Improved Linear Channel Estimation Based on Channel Shortening Prefilter for OFDMA Based WiMAX Systems	<b>Kavitha. K &amp;</b> Manikandan. S	International Journal of Applied Engineering Research	2015
67.	An Intelligent Algorithm for Information Extraction from Images of Different Illumination	M.Sakthivel and K.Karthik <b>P.Karthikeyan</b>	Journal of Xidian University	2021
68.	Hybrid approach of efficient decision-based algorithm and fuzzy logic for the removal of high	<b>P Karthikeyan.</b> S Vasuki	Journal of Circuits. Systems and Computers	2016

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	density salt and pepper noise in images			
69.	Efficient decision based algorithm for the removal of high density salt and pepper noise in images	<b>P Karthikeyan.</b> S Vasuki	Journal of Communications Technology and Electronics	2016
70.	Multiresolution joint bilateral filtering with modified adaptive shrinkage for image denoising	<b>P Karthikeyan.</b> S Vasuki	Multimedia Tools and Applications	2015
71.	Time series analysis of multispectral satellite images using game theory classifier	<b>GA Usha.</b> S Vasuki	Optik	2021
72.	DNN based smart attendance management system	Dinesh kumar <b>Dr.S.Gandhimathi @ Usha</b>	International Journal of Innovative Research in computer and communication Engineering	2021
73.	A Novel Method for Segmentation and Change Detection of Satellite Images Using Proximal Splitting Algorithm and Multiclass SVM	S Gandhimathi Alias Usha. S.Vasuki	J Indian Soc Remote Sens	2019
74.	Improved segmentation and change detection of multispectral imagery using graph cut based clustering and multiclass SVM	S Gandhimathi Alias Usha. S.Vasuki	Multimed Tools Appl	2018
75.	Unsupervised Change Detection Of Multispectral Imagery Using Multi Level Fuzzy Based Deep Representation	<b>S . Gandhimathi</b> <b>Alias Usha.</b> S. Vasuki	Journal of Asian Scientific Research	2017
76.	Contourlet Transform Based Feature Extraction and Classification of Multispectral Images	S. Vasuki and S. Suganya <b>S. Gandhimathi @ Usha</b>	Middle-East Journal of Scientific Research	2016
77.	Channel Migration Analysis of River and Feature Extraction from Remotely Sensed Multispectral Images	<b>SGandhimathi @Usha.</b> S .Vasuki. GPriyadharshini. M Priyanka. M Ragavi	International Journal of Applied Engineering Reserach	2015
78.	Analytical Evaluation of Chunk-based Tractable Multicell OFDMA system	<b>P. Kavitha.</b> S. Shanmugavel	Radioengineering Journal	2018
79.	Spectral Efficiency Analysis of Multi Cell OFDMA System with Sectoring	<b>P. Kavitha.</b> S. Shanmugavel	ICTACT Journal on Communication Technology	2017

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80.	Automated attendance system using Image processing and IoT	<b>P. Om Prakash</b>	International Journal of Innovative Research in Computer and Communication Engineering	2020
81.	Navigation of Unmanned Aerial Vehicles in GPS Denied Region Using Vision Based Obstacle Detection	<b>P. Om Prakash</b>	IJERT	2017
82.	Wormhole Attack Detection Algorithm in Wireless Network Coding Schemes	<b>P. Om Prakash</b>	International Journal of Applied Engineering Research	2015
83.	Efficient Detection of Sinkhole Attack in Wireless Sensor Network Using Parameters Estimation Techniques	<b>P. Om Prakash</b>	International Journal of Applied Engineering Research	2015
84.	Paper titled "Modern Power Factor Correction Technique using Arduino Mega2560"	<b>A.Suban</b>	IOP Science – Scopus Indexed Journal	2020
85.	Improving Energy Efficiency by Bayesian Channel Estimation and Joint Multiflow Beamforming In Massive MIMO System	<b>A.Suban</b>	Journal of Emerging Technologies and Innovative Research	2018
86.	Performance Analysis Of MIMO OFDM System With Perfect Channel Estimation And Beamforming Technique	<b>A.Suban</b>	GE-International Journal of Engineering Research	2017
87.	Compressed Signal Recovery by Convex Optimization and NonConvex Regularization	<b>A.Suban</b>	International Journal of Engineering Research & Technology	2017
88.	Cooperative Beamforming and Efficient Resource Allocation for Large Scale Global Optimization	<b>A.Suban</b>	International Journal of Engineering Research & Technology	2017
89.	Beamforming with Per-Antenna Power Constraint and Transmit Antenna Selection using Convex Optimization Technique	<b>A.Suban</b>	International Journal of Engineering Research & Technology	2017
90.	Energy Efficient Power Control & Bayesian Channel Estimation for Massive MIMO	<b>A.Suban</b>	International Journal of Engineering Research &	2017



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			Technology	
91.	Adaptive Beamforming Algorithm with Increased Speed and Improved Reliability for Smart Antennas	<b>A.Suban</b>	International Journal of Advanced Research in Computer and Communication Engineering	2016
92.	Design of Analog and Digital Beamformer for 60GHz MIMO Frequency Selective Channel through Second Order Cone Programming	<b>A.Suban</b>	IOSR Journal of VLSI and Signal Processing	2015
93.	Improvement in Performance of MIMO systems by Designing a combined Analog & Digital Beamforming	<b>A.Suban</b>	An International Journal MASIVJ Journal	2015
94.	Fabric Flaw Ferreting	<b>P. Anand</b>	International Journal of Engineering Research & Technology	2017
95.	Detection of Number of Fruits In A Tree And Yield Management	<b>P. Anand</b>	International Journal of Engineering Research & Technology	2017
96.	Classification of Brain Matters Disease in MRI by using GLCM and ANN Classifier	<b>P. Anand</b>	International Journal of Emerging Technology in Computer Science & Electronics	2016
97.	Classification of Brain Matters diseases in MRI by Using GLCM and D-Min Classifier	<b>P. Anand</b>	International Journal of MASIVJ	2015
98.	Development of Efficient Agricultural Device to Evaluate the Soil Parameters for Precision	<b>G Pradeep Kumar.</b> SMJeyakumar. T Nishanth. MS Kumar	Agriculture Engineering Reports	2019
99.	Design of sovereign unmanned ground vehicle for manfree agriculture based on hue navigation algorithm using raspberry pi2	B Sridevi. <b>GP Kumar.</b> P Omprakash	International Journal of Research in Advanced Technology	2016

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100.	Wormhole Attack Detection Algorithm In Wireless Network Coding Schemes	Manimala.S <b>Pradeepkumar.G</b> Omprakash.P	International Journal of Applied Engineering Research Special issues	2015
101.	Efficient Detection of Sinkhole Attack in Wireless Sensor Network Using Parameters Estimation Techniques	Manimala.S <b>Pradeepkumar.G</b> Omprakash.P	International Journal of Applied Engineering Research Special issues	2015
102.	An Intelligent Algorithm for Information Extraction from Images of Different Illumination	<b>M. Sakthivel</b> et al.	Journal of Xidian University	2021
103.	An Enhanced and Secured Wireless Environment using Swept Frequency Capacitive Sensing	A.Babu Karuppiah. <b>RajaRaja. R.</b> Shiny Ponmani. S Meenkashi. C	Asian Journal of Information Technology	2017
104.	Detection of Hard Exudates in Color Fundus Images Based On ELM Classifier	<b>A ALAIMAHAL.</b> S.VASUKI	IRE Journal	2020
105.	Detection of Fish Freshness Using Image Processing	<b>A Alaimahal. S</b> Shruthi. M Vijayalakshmi. P Vimala	International Journal of Engineering Research & Technology	2017
106.	An Intelligent Algorithm for Information Extraction from Images of Different Illumination	<b>K. Karthik</b> et al.	Journal of Xidian University	2021
107.	Multiple ANFIS observers based Sensor Fault detection and control in a satellite launcher	<b>B. Karthikeyan</b>	International journal of Innovative Research in Science and Technology	2016
108.	Control of Interacting Level process under sensor failure conditions using Coactive adaptive Neuro-Fuzzy observer	<b>B. Karthikeyan</b>	International Journal of New Technologies in Science and Engineering	2015
109.	Implementation of Real time Climatic control inside a chamber by controlling temperature and relative humidity using output averaging method	<b>B. Karthikeyan</b>	International Journal of Applied Engineering Research	2015
110.	Wind turbine Gear box condition monitoring using PLC and SCADA	<b>B. Karthikeyan</b>	International Journal of Applied Engineering	2015

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			research	
111.	A Novel Energy Efficient Sybil Node Detection Algorithm for Intrusion Detection System in Wireless Sensor Networks	<b>J. Dalfiah</b>	IEEE Computer Society	2017
112.	'Defending against false data attacks in 3D grid-based MANET using soft computing approaches	<b>B. Muneeswari &amp; MSK Manikandan</b>	Soft Computing	2019
113.	Energy efficient clustering and secure routing using reinforcement learning for three-dimensional mobile ad-hoc networks	<b>B. Muneeswari &amp; MSK Manikandan</b>	IET Communications	2019
114.	Unmanned aerial Vehicle's runway landing system with efficient target detection By using morphological fusion for military surveillance system	<b>N.Nagarani.</b> Dr.P.Venkata krishnan Dr. N.Balaji	Computer Communication	2019
115.	IoT Based Breath Monitoring System Using Foil Sensor	<b>P.Anand</b>	International Journal of Scientific Research in Science and Technology	2021