



Research Proposals

2014- Research proposal sent to DRDO under the title of Conical Tank PID controller Tuning –cleared Upto second round . We got Review and queries.

2015 - Research proposal sent to DRDO under the title of Moving Object Detection – We got Review and Queries.

2017 – Research Proposal sent to DST Solar panel back side voltage Measuring Devices.

2018 – Research proposal sent to AICTE under the title of Petrol Adulteration Detection.

2019- Research proposal sent to IE chapter for student Projects under the title of Monitoring the Sea surface waves using Acoustic Sensor.

2019 - Research proposal sent to IE chapter for student Projects under the title of Structural Health Monitoring through DRONE aerial Imaging.

2019 - Research proposal sent to DST under the title of “EAR-EEG signal complexity analysis for visual perception during rest and mental activity for schizophrenia patient in natural environment to earlier diagnose and monitoring the mood disorder”.

Journal Publications :

S.No	Publication Month and Year	Faculty Name	Branch Name	Name of the Paper	Journal Name	Citation Number
1	June 2009	Dr.R.Ganesan	Electronics & Instrumentation Engineering	Texture Analysis in CT Brain Images Using a Reduced Run- Length Method'	CiiT International Journal of Digital Image Processing	Vol.No.3,pp.88-92
2	July 2009	Dr.R.Ganesan	Electronics & Instrumentation Engineering	Brain Tumor Classification Using RBFN Classifier',	International Journal of Emerging Technologies and	Vol. 2, No. 2, pp. 622-625.

					Applications in Engineering, Technology and Sciences (IJ-ETA-ETS),	
3	August 2008	Dr.R.Ganesan	Electronics & Instrumentation Engineering	Enhancement of CT scan brain images using selective median filter'	GESTS International Transactions on Computer Science and Engineering	Vol. 48, No. 1, pp. 137-145
4	August 2009	Dr.R.Ganesan Annexure II	Electronics & Instrumentation Engineering	Segmentation of Computed Tomography Brain Images using Genetic Algorithm',	, International Journal of Soft Computing, Medwell Journals,	Vol. 4, No. 4, pp. 157-161. ANNA UNIVERSITY ANNEXURE II
5	October 2011	Dr.R.Ganesan	Electrical & Electronics Engg	Enhancement of CT brain images using Edge based selective median filter'	International Journal of Computer Applications in Engineering, Technology and Sciences	Vol.4 Page No.207
6	October 2011	Dr.R.Ganesan	Electrical & Electronics Engg	Intelligent agent based Knowledge management and knowledge discoverySystem	International Journal of Advanced Research in Computer Science	VLO 3 NO.2 APRIL 2012
7	July 2012	Dr.R.Ganesan Annexure I	Electrical & Electronics Engg	Analysis of CT scan brain images using RBFN	Defence Science Journal	Vol. 62 No.4 PP 212-218 ANNA UNIVERSITY ANNEXURE I
8	Nov 2012	Dr.R.Ganesan	VLSI Design	Design of Reconfigurable	BONFRING Intellectual	Page No.1-4

				Multimode Inter Leaver for MIMO-OFDM Systems	Integrity	<i>Paper ID ICEC1001</i>
9	Feb-2013	Dr.R.Ganesan	VLSI Design	A Lphc X-Filling Framework For Capture Power Reduction During Speed Scan Testing	Journal of Engineering ,Computers & Applied Sciences	<i>Vol.2,No.2, Feb-2013</i>
10	Feb-2013	Dr.R.Ganesan	VLSI Design	Novel Approach on Efficient Hardware Architecture for 2D-Discrete WaveletTransforms	International Journal of Advanced Information science and technology.	<i>Vol.10.No.10, Feb-2013</i>
11	Feb-2013	Dr.R.Ganesan	VLSI Design	Dynamic Fault Tolerance System for Testing Mutiple Fault Defects	International Journal of Advanced Information science and technology.	<i>Vol.10.No.10, Feb-2013</i>
12	Mar-2013	Dr.R.Ganesan	VLSI Design	Efficacious Redundany Technique for Enriched Lockstep Architecture	International Journal of Advanced Information science and technology.	<i>Vol.11.No.11, Mar-2013</i>
13	Mar-2013	Dr.R.Ganesan	VLSI Design	Performance Analysis of Real Time Architecture Using PES Technique	International Journal of Advanced Information science and technology.	<i>Vol.11.No.11, Mar-2013</i>
14	Mar-2013	Dr.R.Ganesan	VLSI Design	Power Optimization Technique for testing VLSI Circuits	International Journal of Advanced Information science and	<i>Vol.11.No.11, Mar-2013</i>

					technology.	
15	Mar-2013	Dr.R.Ganesan	VLSI Design	VLSI Implementation of Qos Supported Efficient Adaptive Network on Chip Architecture	International Journal of Advanced Information science and technology.	<i>Vol.11.No.1 1,Mar-2013</i>
16	April-2013	Dr.R.Ganesan	VLSI Design	VLSI Implementation of Multi Layer adaptive error control for network on chip links	International Journal of Advanced Information science and technology	<i>Vol.12.No.1 2,Mar-2013</i>
17	April-2013	Dr.R.Ganesan	VLSI Design	VLSI Design and performance analysis of multi channel ADC using MTS algorithm	International Journal of Advanced Information science and technology	<i>Vol.12.No.1 2,Mar-2013</i>
18	April-2013	Dr.R.Ganesan	VLSI Design	VLSI Design of Fault tolerance system with Reconfigurable Codes	International Journal of Advanced Information science and technology	<i>Vol.12.No.1 2,Mar-2013</i>
19	April-2013	Dr.R.Ganesan	VLSI Design	VLSI Implementation of Adaptive Pre Filtering Techniques for Image Resampling Noise Compensation	International Journal of Advanced Information science and technology	<i>Vol.12.No.1 2,Mar-2013</i>
20	April-2013	Dr.R.Ganesan	VLSI Design	VLSI Implementation of Color Image Compression Based on Boundary Adaptive Quantization and Linear Predictive Modeling	International Journal of Advanced Information science and technology	<i>Vol.12.No.1 2,Mar-2013</i>

21	April-2013	Dr.R.Ganesan	VLSI Design	VLSI Implementation of Hough Transform to Reduce Resource on an Image	International Journal of Advanced Information science and technology	<i>Vol.12.No.1 2,Mar-2013</i>
22	June 2013	Dr.R.Ganesan	CMOS	Power Gated Pulsed Dual Edge Triggered Flip Flop	International Journal of Advanced Information Science and Technology (IJAIST)	<i>Vol.14, No.14, June 2013</i>
23	April-2014	Dr.R.Ganesan	Image Processing	Optical Disc Detection on Retina Image Using VLSI Genetic Optimization Technique	CiiTInternational Journal of Programmable Device Circuits and Systems	Vol 6, No 4 (2014)
24	April-2014	Dr.R.Ganesan	VLSI	Economic Power Speed Daubechies Wavelet Filter Using VLSI	CiiTInternational Journal of Digital Signal Processing	Vol 6, No 4 (2014)
25	April-2014	Dr.R.Ganesan	VLSI	An FSM Based Memory Architecture to Valuate Memory Fault for OFDM	CiiTInternational Journal of Digital Signal Processing	Vol 6, No 4 (2014)
26	April-2014	Dr.R.Ganesan	LOW POWER	Static Algorithmic Transformation Based Low Power Wireless Sensor Networks	CiiT International Journal of Wireless Communication on April 09, 2014.	Vol 6, No 4 (2014)
27	April-2014	Dr.R.Ganesan	IMAGE PROCESSING	Improved Navigation For Visually Challenged With High Authentication Using a Modified	International Journal of Advanced Research in Computer Science & Technology	Vol. 2 Issue Special 1 Jan-March 2014

				Sift Algorithm I	(IJARCST 2014)	
28	April-2014	Dr.R.Ganesan	IMAGE PROCESSING	ANFIS Classifier Based Lung Tumor Severity Diagnosis	IJARCST-CF-I-2014-16	Vol. 2 Issue Special 1, January to March 2014,
29	April-2014	Dr.R.Ganesan Annexure II	IMAGE PROCESSING	An Optimized Adaptive Neuro Fuzzy Inference System for Brain Image Classification	Applied Medical Informatics	Vol.34, No.2 / 2014 PP: 55-64 ANNA UNIVERSITY ANNEXURE II
30	April-2014	Dr.R.Ganesan	VLSI	Testing Of An IC Using BIST Approach	IJCII	
31	April-2014	Dr.R.Ganesan	VLSI	Testing Of An IC Using debugging Approach	Elysium Journal of Engineering Research & Management	
32	July-2014	Dr.R.Ganesan Annexure II	Control System	Design of Controllers for Dual – Motor Ball and Beam System	International review of Mechanical Engineering	Vol.8,N.4,I SSN 1970-8734, PP 714 ANNA UNIVERSITY ANNEXURE II
33	August-2014	Dr.R.Ganesan Annexure II	Power System	Enriching Electric Power Quality by using BEE Algorithm in shunt active filters	International Journal On Modelling and simulation	Vol.7 No.4 ANNA UNIVERSITY ANNEXURE II

34	Dec - 2014	Dr.R.Ganesan Annexure II	Image processing	An Automated Lung Cancer detection from CT images based on using Artificial Neural network and Fuzzy Clustering Methods	International Journal of Applied Engineering Research	Vol.22 No.22 Pp 15783-15799 ANNA UNIVERSITY ANNEXURE II
35	January– 2015	Dr.R.Ganesan	VLSI	Light Weight Novel Approach Voter Design Using Sic Vector in TMR Systems	International Journal of Advanced Research in Computer Science and Software Engineering	Volume 5, Issue 2
36	August-2014	Dr.R.Ganesan Annexure II	Power System	Power Quality Enrichments using Fuzzy logic Controller based Shunt Hybrid Power filter with thyristerControlled Reactor	International Journal of Applied Engineering Research	Vol.9 No.24 PP 8344-8351 ANNA UNIVERSITY ANNEXURE II
37	January – 2015	Dr.R.Ganesan Annexure II	Speech Signal Processing	Adaptive Neuro Fuzzy Inference System for classification of Respiratory Signals using Cepstral Features	International Journal of Applied Engineering Research	Vol.10 No. 28 PP: 22121 ANNA UNIVERSITY ANNEXURE II
38	FEB – 2015	Dr.R.Ganesan	VLSI	DESIGN OF STBC OFDM DOWNLINK BASEBAND RECEIVER FOR LOW POWER APPLICATIONS USING VLSI TECHNOLOGY	International Journal of Advanced Information Science and Technology	(IJAIST) ISSN: 2319:2682 Vol.34, No.34

39	FEB – 2015	Dr.R.Ganesan	VLSI	Designing High Performance Multi Port Router NoC With Shared Buffer	<i>International Journal of Advanced Information Science and Technology</i>	ISSN: 2319:2682 Vol.34, No.34,
40	FEB – 2015	Dr.R.Ganesan	Image Processing	Region based CT Lung image analysis with neural Network Multi-Level Classifier	<i>International Journal of Advanced Information Science and Technology</i>	ISSN: 2319:2682 Vol.34, No.34,
41	FEB – 2015	Dr.R.Ganesan	VLSI	RECOGNITION OF SURGICALLY ALTERED FACE USING NEURAL NETWORK CLASSIFIER	<i>International Journal of Advanced Information Science and Technology</i>	ISSN: 2319:2682 Vol.34, No.34,
42	FEB – 2015	Dr.R.Ganesan	VLSI	Real Time Face Detection Using AdaBoost Algorithm	<i>International Journal of Advanced Information Science and Technology</i>	ISSN: 2319:2682 Vol.34, No.34,
43	FEB – 2015	Dr.R.Ganesan	Speech Processing	Preliminary Recognition of Respiratory Deformities using Cepstral Analysis	<i>International Journal of Advanced Information Science and Technology</i>	ISSN: 2319:2682 Vol.34, No.34,

44	FEB – 2015	Dr.R.Ganesan	Image Processing	NEURAL NETWORK BASED BINARY TISSUE CLASSIFICATION ON WOUND IMAGES	<i>International Journal of Advanced Information Science and Technology</i>	ISSN: 2319:2682 Vol.34, No.34,
45	FEB – 2015	Dr.R.Ganesan	VLSI	LOW POWER VLSI FOR IMAGE COMPRESSION SYSTEM USING DISCRETE WAVELET TRANSFORM	<i>International Journal of Advanced Information Science and Technology</i>	ISSN: 2319:2682 Vol.34, No.34,
46	FEB – 2015	Dr.R.Ganesan	Image Processing	DETECTING THE EPILEPTIC SEIZURE USING HISTOGRAM FEATURES	<i>International Journal of Advanced Information Science and Technology</i>	ISSN: 2319:2682 Vol.34, No.34,
47	FEB – 2015	Dr.R.Ganesan	VLSI	DESIGN OF RELIABLE NoC USING DECIMAL MATRIX CODE	<i>International Journal of Advanced Information Science and Technology</i>	ISSN: 2319:2682 Vol.34, No.34,
48	FEB – 2015	Dr.R.Ganesan	VLSI	Design Of RAID Controller With Low Power And High Performance	<i>International Journal of Advanced Information Science and Technology</i>	ISSN: 2319:2682 Vol.34, No.34,

49	FEB – 2015	Dr.R.Ganesan	VLSI	A Novel Approach to Implement the BIST Technique in TMR Systems and Generate Test Patterns	<i>International Journal of Advanced Information Science and Technology</i>	ISSN: 2319:2682 Vol.34, No.34,
50	FEB – 2015	Dr.R.Ganesan	VLSI	<i>A bandwidth scalable controller technique for reducing power consumption of caches in embedded processor</i>	<i>International Journal of Advanced Information Science and Technology</i>	ISSN: 2319:2682 Vol.34, No.34,
51	FEB – 2015	Dr.R.Ganesan	VLSI	<i>A Secured Data Transmission in Wireless Sensor Network Using ID-Based Broadcast Authentication Scheme</i>	<i>International Journal of Advanced Information Science and Technology</i>	ISSN: 2319:2682 Vol.34, No.34,
52	FEB – 2015	Dr.R.Ganesan	VLSI	PERFORMANCE ANALYSIS OF 128-BIT ADDER USING DIFFERENTIAL LOGIC STYLE BY BINARY TO EXCESS CONVERTER	<i>International Journal of Advanced Information Science and Technology</i>	ISSN: 2319:2682 Vol.34, No.34,
53	FEB – 2015	Dr.R.Ganesan Annexure II	VLSI	Design of fuzzy Controller Based on PSO Algorithm to Control The Dissolved Oxygen In The Activated Sludge Water	<i>International Journal of Advanced Information Science and Technology</i>	ISSN: 2319:2682 Vol.34, No.34,

54	FEB – 2015	Dr.R.Ganesan	VLSI	REDUCING POWER CONSUMPTION IN NETWORK ON CHIP USING SCRAMBLE TECHNIQUES	<i>International Journal of Advanced Information Science and Technology</i>	ISSN: 2319:2682 Vol.34, No.34,
56	FEB – 2015	Dr.R.Ganesan	VLSI	ADDER FOR LOSSY ADDITION IN QCA	<i>International Journal of Advanced Information Science and Technology</i>	ISSN: 2319:2682 Vol.34, No.34,
57	FEB – 2015	Dr.R.Ganesan	VLSI	DETECTION OF FUNCTIONAL ANOMALIES OF FETAL HEART USING AUSCULTATION METHODOLOGY	<i>International Journal of Advanced Information Science and Technology</i>	ISSN: 2319:2682 Vol.34, No.34,
58	June 2016	Dr.R.Ganesan ANNEXURE I	Instrumentation	Implementation of Proportional Integral Controller Parameter Tuning for Spherical Tank System using Root Locus Technique	Asian Journal of Research in Social Sciences and Humanities	Vol. 6, Issue 6, Special Issue June 2016, pp. 85- 103. ISSN 2249-7315 A Journal Indexed in Indian Citation Index DOI NUMBER: 10.5958/2249 - 7315.2016.00 381.6 Category: Science and Technology Annexure I

59	June 2016	Dr.R.Ganesan ANNEXURE I	Power Quality	Flower Pollination Algorithm based Selective Harmonic Elimination PWM for an Eleven Level Inverter	Asian Journal of Research in Social Sciences and Humanities	Vol. 6, Issue 6, Special Issue June 2016, pp. 69-84. ISSN 2249-7315 A Journal Indexed in Indian Citation Index DOI NUMBER: 10.5958/2249 - 7315.2016.00 380.4 Category: Science and Technolog Annexure I
60	May 2016	Dr.R.Ganesan	VLSI	A DESIGN OF QUADDED LOGIC WITH QUADDED TRANSISTOR CIRCUIT USING DYNAMIC VOLTAGE SCALING	INTERNATIONAL JOURNAL OF ENGINEERING SCIENCE AND COMPUTING	VOL. 6 ISSUE NO.5
61	May 2016	Dr.R.Ganesan	VLSI	VLSI Implementation of Polar Codes VIA Folding Transmission	INTERNATIONAL JOURNAL OF ENGINEERING SCIENCE AND COMPUTING	DOI 10.4010/2016 .1259 ISSN 2321 3361 © 2016 IJESC
62	May 2016	Dr.R.Ganesan	VLSI	An Efficient Constant Multiplier Architecture using Binary Common Sub-Expression Elimination and Fault mitigation for Symmetry Filters	INTERNATIONAL JOURNAL OF ENGINEERING SCIENCE AND COMPUTING	DOI 10.4010/2016 .1262 ISSN 2321 3361 © 2016 IJESC Page No. 5128

63	May 2016	Dr.R.Ganesan Annexure I	Image Processing	An Automated Lung Cancer Detection from CT Images Based on Using Artificial Neural Network and Fuz Clustering Metho	International Journal of Applied Engineering Research	Volume : 6, Issue : 8 First page : (2321) Last page : (2343) Online ISSN : 2249-7315. Article DOI : 10.5958/2249-7315.2016.00749.8 Annexure I
64	2017	R.Ganesan	Process Control	Design and implementation of pi controller tuned by fuzzy logic for water level control of spherical tank system	," Journal of Electrical Engineering"	ISSN:1582-4594. Volume.17, 2017. Scopus,Impact factor:0.97 Annexure I
65	May-2017	R.Ganesan	Power Quality	A Boost H-Bridge Inverter with Reduced Hardware Configuration for Harmonic Minimisation",.	Advances in Natural and Applied Sciences.	11(7): ; Pages: 674-6802. 16 H index . Scopus Annexure II
66	July 2017	R.Ganesan	Image Processing	Fuzzy-C-Means Clustering Based Segmentation and CNN-Classification for Accurate Segmentation of Lung Nodules	,Asian Pacific Journal of Cancer Prevention,	<u>Volume 18,</u> <u>Issue 7,</u> Page 1869-1874, 55 H Index, Impact factor: 1.500. Scopus Annexure I

67	2017	R.Ganesan	Image processing	<i>Statistical Analysis of Feature Extraction for CT Brain Image Using Reduced Gray Level RunLength Method,</i>	Jour of Adv Research in Dynamical & Control Systems,	Vol. 9, No. 2, 2017, Scopus , 4 H Index
68	2017	Dr.R.Ganesan	VLSI	<i>Design of a Cellular Automata based VLSI Architecture for Error Correction,</i>	Jour of Adv Research in Dynamical & Control Systems,	Vol. 9, No. 1, 2017 , Scopus , 4 H Index
69	2017	Dr.R.Ganesan	Image Processing	Impulsive Imposture from video using Blaze Vigour.	Jour of Adv Research in Dynamical & Control Systems	Vol. 9, No. 1, 2017 , Scopus , 4 H Index
70	2018	Dr.R.Ganesan	Image Processing	GPSO based effective system for respiration Disease detection	TAGA Journal	VOL: 14 ISSN:1748-0345 Page:700 Annexure I
71	Sep-2018	Dr.R.Ganesan	Optical	Investigation of Optical Code-Division multiple access system for single photo diode system.	International Journal of Pure and applied mathematics	Volume : 119, No.16 Page:1753 Scopus Index Impact factor:0.319

72	Oct-2018	Dr.R.Ganesan	OPTICAL	Designing a Digital signal Processor based on Optical signal processor with feedback: Amplitude and phase Control	Global Journal for Research Analysis	Vol:07, Issue No:08, ISSN:2277-8160
73	Jan-2019	Dr.R.Ganesan	Bio Medical	Analysis of OSA Syndrome from PPG Signal Using CART-PSO Classifier with Time Domain and Frequency Domain Features	CMES, Technical Science Press	Vol 118, No.2, PP -351-375 Annexure , Scopous, Web of Science, Impact factor: 0.419
74	March-2019	Dr.R.Ganesan	Image Processing	Petrol quality analysis for different level of adulteration using thermal imaging and GLCM features	ARNP Journal of Engineering and Applied Sciences	ISSN 1819-6608 , VOL. 14, NO. 5, MARCH 2019, PP-1043-1050 Scopous SJI journal , Impact factor 0.7
75	Dec-2019	Dr.R.Ganesan	Bio Medical	Non-Invasive Method of Diabetes Measurement using Teg Sensor via Foot Skin Temperature	IJEAT Journal	ISSN 2249-8958 - online Scopus Impact factor of 5.67 Pages:1188-1195

76	Jan 2020	Dr.R.Ganesan	Optical Image Processing	"Comparison of the Speed Between Digital and Optical Image Processors for Real Time Applications"	IJESC	ISSN 2321 3361 © 2019 Impact factor of 5.61
77	Jan 2020	Dr.R.Ganesan	Optical Image Processing	COMPARISON OF THE SPEED AMONG DIGITAL, OPTICAL AND HYBRID IMAGE PROCESSORS FOR REAL TIME APPLICATIONS	WJET	ISSN 2454-695X wjert, 2020, Vol. 6, Issue 1, 114-122. Impact factor of 5.924
78	2021	R.Ganesan	Biomedical	<u>Design and Development of 3D Brain MRI System Using Deep Neural Networks</u>	Journal of Medical Imaging and Health Informatics	11 (10), 2653-2659 (Annexure)
79	2021	R.Ganesan	Image Processing	<u>Automatic Facial Emotional Valence Detection System Modelling Using Crafted Features and Deep Neural Network</u>	Journal of Medical Imaging and Health Informatics	11 (6), 1568-1579 (Annexure)

80	2021	R.Ganesan	Biomedical	Computer aided tuberculosis	Materials Today: Proceedings	Vol 47, Pages 292-298,ISSN: 1369-7021, Scopus.
81	2021	R.Ganesan	Biomedical	“Survey on compact dual – Band stop frequency selective surface for shielding application”	Materials Today: Proceedings	Volume 47, Part 1, 2021, Pages 410-413, ISSN: 1369-7021, Scopus.
82	2021	R.Ganesan	Biomedical	Cashew Nut Grade classification Using Convolutional Neural Network	API Conference Proceedings	Volume 12, Part 1, 2021, Pages 243-248, ISSN: 1369-7021, Scopus.
83	2021	R.Ganesan	Biomedical	“Automated Detection and Classification of Breast Cancer Nuclei with Deep Convolution Neural Network	J.ICT Res. Appl.	Vol.15.No.2.2021, 139-151, March 2021. Scopus.

You tube Video for my Research:

https://youtu.be/XOZbJ_NFQw0

LAST THREE YEARS CONSOLIDATED:

YEAR	ANNEXURE I	ANNEXURE II	SCOPOUS	WEB OF SCIENCE	UGC APPROVED/ GOOGLE SCHOLAR/ ONLINE WITH ISSN

2017	02	05	06	-	30
2018	01	-	02	-	15
2019	01	-	04	01	05
2020	01		01		03
2021			01	01	
2022			01	01	

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Dr.R.Ganesan