

ELECTRONICS AND COMMUNICATION ENGINEERING

Student project

Details of research proposals applied/On going/Completed:

S.NO	Title of project	Funding agency & scheme	Amount (in lakhs)	Principal investigator (PI) / CO-PI	Year	Status
1	Development of intelligent power car for any differently abled persons	Tamilnadu state council for science and technology	0.0600	Mr.V.Thamizharasan	2012	Completed

Details of FDP/SDP/Seminar/Winter School/ Summer School/Workshop organized

S.NO	Title of project	Funding agency & scheme	Co-ordinators	Amount (in lakhs)	Year	Status
Workshop						
1	Application and Software Development using LabVIEW	ESEC	Mr.K.Srinivasa Moorthy	0.03727	2012	Completed
2	Exploring MATLAB and its tool	ESEC	Ms.M.Kavitha	0.10000	2009	Completed
3	Embedded Systems	ESEC	Ms.M.Kavitha	0.05252	2009	Completed
4	Emerging Trends In Communication Technologies	ESEC	Ms.R.Kalaivani	0.06393	2008	Completed
Conference						
1	Electronik & communicare'12	ESEC	Ms.R.Kalaivani	0.55000	2012	Completed

Academic Research:

Research Facilities

S.No.	Facility (Equipment/Software name)	Description (Uses)
1	Xilinx ISE foundation V9.1 Series Software	Simulation of digital circuits using HDL
2	Xilinx Spartan 3E FDPA Trainer Kit/ Universal VLSI Trainer Kit	Implementation of digital circuits using HDL
3	Power Meter	To measure power of high frequency signal
4	Klystron bench	To study the characteristics of microwave signal
5	ORCAD 10.0 & ORCAD 16.0	To simulate analog and digital circuits and obtain their characteristics
6	MATLAB 6.5	To simulate /analysis signals and systems
7	Digital storage oscilloscope	To plot and store high frequency signal

Details of Faculty Pursuing Ph.D

S.no	Name of the faculty	Specialization	Year of Registration	University	Status
1.	Dr.P.Nithyanantham	Ocular blood flow measurements using laser Doppler flowmetry and Ocular fundus reflectometry	Jan-2009	University of Modena and Reggio Emilia	Completed
2.	Ms.R.Kalaivani	Signal processing in power line communication	July 2008	Anna University of Technology, Coimbatore	Pursuing
3.	J.Madan Mohan	Nano technology	July 2009	Anna University	
4.	K.Srinivasamoorthy	--	Jan 2013	Anna University	Pursuing

Details of Paper Publications by Faculty in National / International Journals:

S.No.	Authors	Title of the paper	Name of the journal	National/ international	Citation details (reference)
1.	Dr.P.Nithyanantham	Measurement of the fluid-velocity profile using a self-mixing super luminescent diode	Material science and technology	International	Volume-22, 2011. DOI:10.1088/0957-0233/22/2/025402
2.	Dr.P.Nithyanantham	Effect of tropicamide on scattering geometry- A laser Doppler flowmetry study	ACTA Ophthalmologica	International	Submitted
3.	Dr.P.Nithyanantham	Optic nerve reflectance variation during light flicker stimulation	Biomedical optics	International	Submitted
4.	V.Thamizharasan	An efficient VLSI architecture for FIR filter using computation sharing multiplication	International journal of Computer application	Vol 54 September 2012	
5.	Prof.R.Kalaivani	DWT/IDWT processor for power line communication system	Elixir	50, 10434-10439, 2012	
6.	Dr.P.Nithyanantham	Does pupil dilation influence subfoveal choroidal laser Doppler flowmetry?	Acta Ophthalmol.	Article first published online: 7 MAY 2013, DOI: 10.1111/aos.12130	
7.	R.Poornima	Implementation of neural network based V/F control for three phase induction motor drive with power factor improvement	Springer	Recent Advancements in system Modeling and Applications , Lecture notes in Electrical Engineering Vol 188, Page 275-286	

Details of Paper Publications by Faculty in National / International conferences:

S.No.	Authors	Title of the paper	Details of conference	National / International	Citation details (Reference)
1.	G. Senthilmurugan	Image denoising based on wavelet transforms	NCITC'12	National	2012
2.	V.Thamizharasan	FPGA Implementation of Efficient modified VLSI architecture for multiplier	National conference on Computing communication technology & Science	National	2013
3.	R.Poornima	Implementation of neural network based V/F control for three phase induction motor drive with power factor improvement	36 th National systems conference (NSC 2012)	National	2012
4.	M.Jothimani	Visualization based intelligent fire alarm detection system for forest fire discovery	National Conference on Recent Trends In Information Communication & VLSI	National	2013
5.	M.Jothimani & M.Ramya	Customized QOS metric based on data traffic in wireless sensor network routing	3 rd National Conference on computing and communication technologies (NCCCT'13)	National	2013
6.	S.Chithra	FPGA implementation of area efficient folded architecture for row bypassing multiplier	International conference on "Advanced computing Machines and Embedded Technology"	International	2013
7.	M.Jothimani S.Ragunathan	Restoring network connectivity by securing the topology of wireless sensor networks from malicious attack	ICACT	International	2013
8.	S.Ragunathan	Automatic aiding system for visually impaired people	National conference on Emerging trends in Electronics and Communication Engg.	National	2013
9.	M.Ramya	Performance evaluation of mobile Adhoc N/Lok by mitigating routing behaviour	NCCCT'13	National	2013
10.	M.Jothimani	Visualization based intelligent fire alarm detection system for forest fire discovery	NCRTIC	National	2013
11.	V.Parthipan	An area efficient lookup table based multiplier	National conference on Emerging trends in Electronics	National	2013

			and Communication Engg.		
12.	P.Nithiyantham	Does tropicamide affect choroidal blood flow in humans? A laser Doppler flowmetry study	SPIE proceedings 2012	International	DOI:10.1117/12.906605
13.	R.Kalaivani	Low power high speed DWT/IDWT processor for OFDM based power line communication system	"Electronics and computation and computing technologies (ICECCT'11)"	International	Dr.Pauls Engg Col., Pondicherry
14.	K.Srinivasa moorthy	Agri electronics-A ground breaking way of contribution in agriculture field	Recent Trends In computer engineering , management and security(ICRATE MS)	International	Vivekananda college of engineering for women
15.	P.Geetha	Agri electronics-A ground breaking way of contribution in agriculture field	Recent Trends In computer engineering , management and security(ICRATE MS)	International	Vivekananda college of engineering for women
16.	M.Kavitha	Embedded based wireless ECG system	"Emerging Trends & Developments In Information Communication, VLSI Design & Embedded Systems"	National	Adhiyamaan Col of Engg. and Tech, Hosur
		Decisive traffic control based on density and dispensation for ambulances & VIP vehicles and energy	"Recent trends in electronics and communication engineering",	National	Ranganathan Engg col.
17.	G.Lingeswaran	Recovery of multiple link failures in mobile IP over MPLS network	Soft computing & advanced communication system (SACS'12)	National	MPNMJ Engg College
		Real time ECG signal analysis by using DWT and wavelet transforms	" On emerging technologies in advanced communication systems"	National	Sasurie Engg. College

18.	C.Moorthy	Design of landslide warning system using zigbee wireless sensor	Soft computing & advanced communication system (SACS'12)	National	MPNMJ Engg. College
		Data communication and control signal transmission over the DC line using PLCC	" On emerging technologies in advanced communication systems"	National	Sasurie Engg College
19.	M.Ramya	Banalities of Steganography Tetralogy.	"Advances in Engineering Technology"	Internationa l	E.G.S.Pillay Engineering College
20.	V.Thamizharasan	Low power high speed DWT/IDWT processor for OFDM based power line communication system	"Electronics and computation and computing technologies (ICECCT'11)"	Internationa l	Dr.Pauls Engineering College, Pondicherry
		High performance digital filter design using computation sharing multiplier	"Recent Trends In Ubiquitous and Computing and Communication Technology (RTUCCT 2011)",	National	Bannari Amman Institute of Technology
21.	C.H.Rammanogerlokiya	Data communication and control signal transmission over the DC line using PLCC	" On emerging technologies in advanced communication systems"	National	Sasurie Engg. College
		Design of landslide warning system using zigbee wireless sensor	Soft computing & advanced communication system (SACS'12)	National	MPNMJ Engg College
22.	S.Ramanathan	Banalities of Steganography Tetralogy.	"Advances in Engineering Technology",	Internationa l	E.G.S.Pillay Engineering College.
23.	S.Ragunathan	Data communication and control signal transmission over the DC line using PLCC	" On emerging technologies in advanced communication systems"	National	Sasurie Engg College

		Recovery of multiple link failures in mobile IP over MPLS network	Soft computing & advanced communication system (SACS'12)	National	MPNMJ Engineering College
24.	G.Senthil murugan	Wavelet based denoising for poor quality fingerprint images	Soft computing & advanced communication system (SACS'12)	National	MPNMJ Engg. College
		Real time ECG signal analysis by using DWT and wavelet transforms.	" On emerging technologies in advanced communication systems"	National	Sasurie Engg. College
25.	V.Parthiban	VLSI architecture for low latency radix -4 CORDIC	"Emerging Trends & Developments In Information Communication, VLSI Design & Embedded Systems"	National	Adhiyamaan College of Engg.& Tech, Hosur
		Wavelet based denoising for poor quality fingerprint images	Soft computing & advanced communication system (SACS'12)	National	MPNMJ Engg. College
26.	P.Nithiyantham	Image processing algorithms for ocular fundus reflectory	Spice proceeding	International	
27.	R.Kalaivani	Design of wide area MEMS digital capacitors for RF Applications	"Networking and Computing",	National	Coimbatore Institute of technology
		Smartphone Based Vehicle-To-Driver Interaction and Safety System	"Recent advancements in Engineering and Technology"	National	SSM College of Engineering
28.	K.Kavitha	Cache Memorizer For Zone Routing Protocol In Mobile Ad-Hoc Networks	"Computer Communication and Informatics",	National	Sri shakthi institute of engineering and technology
		An Area Efficient Look Up Table Based Multiplier	"Innovations in Electrical and Electronics Engineering	National	M.P.Nachimuthu M.Jaganathan Engineering college.

			(ieee-11)",		
		A Novel Architecture Based Modified Booth Multiplier	"Innovations in Electrical and Electronics Engineering (ieee-11)",	National	M.P.Nachimuthu M.Jaganathan Engg. Col.
29.	M.Kavitha	An Application of Kalman filter in Sensor less control of Induction Motor Drives	"Intelligent Design and Analysis of Engineering Products System and Computation",	National	Sri Krishna college of engineering and technology
30.	S.Sathish	An Application of Kalman filter in Sensor less control of Induction Motor Drives	"Intelligent Design and Analysis of Engineering Products System and Computation"	National	Sri Krishna college of engg. & tech.
31.	G.Thiruselvi	On The Channel and Signal Cross Correlation Of Downlink And Uplink Mobile UHF DTV Channels With Antenna Diversity	"Innovations in electrical and electronics engineering (ieee-11)",	National	M.P.Nachimuthu M.Jaganathan Engg. Col.
		Smartphone Based Vehicle-To-Driver Interaction and Safety System	"Recent advancements in Engineering and Technology"	National	SSM College of Engineering
32.	B.Vijaya Baskar	Cache Memorizer For Zone Routing Protocol In Mobile Ad-Hoc Networks	"Computer Communication and Informatics"	National	Sri shakthi institute of engg. & tech
33.	C.Moorthy	Design of wide area MEMS digital capacitors for RF Applications	"Networking and Computing",	National	Coimbatore Institute of technology
		On The Channel and Signal Cross Correlation Of Downlink And Uplink Mobile UHF DTV Channels With Antenna Diversity	"Innovations in electrical and electronics engineering (ieee-11)",	National	M.P.Nachimuthu M.Jaganathan Engineering college.
34.	M.Ramya	Investigation of Micro Strip Array Structures for Smart Cellular Base Station Antennas	"Emerging Trends In Communication And Signal Processing",	National	Sri Rama Krishna engg. Col.
		An Area Efficient Look Up Table Based Multiplier	"Innovations in Electrical and Electronics Engineering (ieee-11)",	National	M.P.Nachimuthu M.Jaganathan Engg. Col.

35.	M.N.Srinithya	A Novel Architecture Based Modified Booth Multiplier	"Innovations in Electrical and Electronics Engineering (ieee-11)",	National	M.P.Nachimuthu M.Jaganathan Engg. col.
		Investigation of Micro Strip Array Structures for Smart Cellular Base Station Antennas	"Emerging Trends In Communication And Signal Processing",	National	Sri Rama Krishna engg. Col.
36.	R.S.Veemesh Khanna	A Wire Less Mesh Sensor Network for Physical Parameters Monitoring	"Computing and Communication Technologies (n3-ct11)",	National	Surya Engg. Col.
		Pilot controlled remote airfield lighting system	"Emerging Trends In Communication And Signal Processing",	National	Sri Rama Krishna engg. Col.
37.	V.Thamizharasan	A Wire Less Mesh Sensor Network for Physical Parameters Monitoring	"Computing and Communication Technologies (n3-ct11)",	National	Surya Engg. Col.
		Touch screen based driving system	"Networking and Computing",	National	Coimbatore Institute of technology
38.	C .Babu	Position sensor less control of BLDC motor using FPGA	"Recent Advancements In Engineering And Technology",	National	Sengunthar engineering college
39.	D.Sangeetha	Position sensor less control of BLDC motor using FPGA	"Recent Advancements In Engineering And Technology",	National	Sengunthar engineering college
		Secure and user friendly pin entry method	"Recent advancements in Engineering and Technology",	National	SSM College of Engineering.
40.	R.Kalaivani	Wavelet Packet Analysis for Power Line Communication System	Innovation in instrumentation and intelligent technologies	National	ESEC
		Comparison of Routing Protocols in Mobile Ad-Hoc Networks	Recent advances in Communication, Systems, Computing and Green IT	National	Hindustan College of Engineering and Technology
41.	K.Kavitha	Comparison of Routing Protocols in Mobile Ad-Hoc Networks	Recent advances in Communication, Systems, Computing and Green IT	National	Hindustan College of Engg and Technology
		Optimized Zone Routing	Soft Computing	National	M.P.Nachimuthu

		Protocol for Mobile Adhoc Networks	in Advanced Communication Systems		M.Jaganathan Engg col.
		An improved Image Retrieval Using Both Color and Texture	Soft Computing in Advanced Communication Systems	National	M.P.Nachimuthu M.Jaganathan Engg. col.
42.	M.Kavitha	Image Enhancement with poor Lighting Using Morphological Transformation	Innovation in Instrumentation and Intelligent Technologies	National	Mahendra engg. Col.
		Secured ECG distribution based on Wavelet Decomposition	Automated Control, Computer and Communications (NACCC'10)	National	Hindustan college of engg. tech.
43.	M.Jothimani	K-Means and Fuzzy C-means Clustering approach for Image segmentation	Computational Systems and Communication Technology (CSCT)	International	
44.	A.M.Preetha	Development of Bluetooth based layer	signals system and security (NCSSS'10)	National	Bannari Amman Institute of Technology
45.	K.Geetha	K-Means and Fuzzy C-means Clustering approach for Image segmentation	Computational Systems and Communication Technology (CSCT)	International	
46.	G.Thiruselvi	Wavelet Packet Analysis for Power Line Communication System	Innovation in Instrumentation and Intelligent Technologies	National	ESEC
		A new watermarking scheme for copyright of digital image	Automated Control, Computer and Communications (NACCC'10)	National	Hindustan college of engg., tech
47.	M.Revathi	On Body Inertial Sensing And Signal Processing of Tremor	Communication, Computation ,Control And Automation	National	SRIT
		Microcontroller Based Embedded Web Server	Recent Trends In Information Technology (NCRITIT'10)	National	RVSCET
48.	R.A.Vishnupriya	Low power low area multiplier based on shift AND – ADD architecture	"signals system and security (ncsss'10)"	National	Bannari Amman Institute of Technology
		Enhancing user experience at museum using RFID technology	"Recent Trends In Information Technology (NCRITIT'10)"	National	RVSCET
49.	P.Geetha	Wavelet Packet analysis for power line communication system	"Innovation in Instrumentation and Intelligent Technologies".	National	ESEC

		Microcontroller Based Embedded Web Server	"Recent Trends In Information Technology (NCRIT'10)"	National	RVSCET
50.	R.S.Kamala Kannan	On Body Inertial Sensing And Signal Processing of Tremor	"Communication , Computation ,Control And Automation"	National	SRIT
		Low power low area multiplier based on shift AND – ADD architecture	"signals system and security (ncsss'10)"	National	Bannari Amman Institute of Technology
51.	M.Vadivel	Image Enhancement with poor Lighting Using Morphological Transformation	"Innovation in Instrumentation and Intelligent Technologies"	National	ESEC.
		Performance evaluation of ear routing protocol	"signals system and security (ncsss'10)"	National	Bannari Amman Institute of Technology
52.	U.Sasikala	Optimized Zone Routing Protocol for Mobile Adhoc Networks	"Soft Computing in Advanced Communication Systems",	National	M.P.Nachimuthu M.Jaganathan Engineering college.
		Secured ECG distribution based on Wavelet Decomposition	"Automated Control, Computer and Communications (NACCC'10)"	National	Hindustan college of engg., tech
53.	B.Vijaya Baskar	An improved Image Retrieval Using Both Colour and Texture	"Soft Computing in Advanced Communication Systems",	National	M.P.Nachimuthu M.Jaganathan Engg col.
		Performance evaluation of ear routing protocol	"signals system and security (ncsss'10)"	National	Bannari Amman Institute of Technology
54.	K.Hemalatha	Optimized Zone Routing Protocol for Mobile Adhoc Networks	"Soft Computing in Advanced Communication Systems",	National	M.P.Nachimuthu M.Jaganathan Engineering college.
		Powered wheel chair controlled by eye movement	"Communication , Computation ,Control And Automation"	National	SRIT
55.	S.Sathish	A new watermarking scheme for copyright of digital image	"Automated Control, Computer and Communications (NACCC'10)"	National	Hindustan college of engg., tech
		Powered wheel chair controlled by eye movement	"Communication , Computation ,Control And Automation"	National	SRIT
56.	Ms.R.Kalaivani	Real time patient management system		National	Hindustan College of Engineering and Technology, Coimbatore

57.	Mr.G.Ravikumar	Detection of vehicle using Static images		National	Mahendra Engineering College , Namakkal
58.	Mr.P.Nithiyanantham, Senior Lecturer & Mr.B.Venkatesh, Lecturer	Content Based Image Retrieval using Wavelet Transform	ISTE one day Conference	National	Erode Sengunthar Engineering College
59.	Mr.P.Nithiyanantham, Senior Lecturer & Miss.M.JothiMani, Lecturer	Nonlinear Analysis of Autonomic Nervous System using Heart Rate Variability	ISTE one day Conference	National	Erode Sengunthar Engineering College