

BIO DATA

Personal Details

Name : **Dr. C. RAJASEKARAN**
Designation : Associate Professor
Date of Joining : 24.04.2002
Nature of Association : Regular
Email : raja7ksrct@ksrct.ac.in



Academic Profile

S.No	Qualification	Institution	Board / University	Full Time/Part Time	Percent age/ CGPA	Year of passing	Class Obtained
1.	Ph.D.	Anna University	Anna University	Part	NA	2015	NA
2.	M.E.	Shanmugha College of Engineering, Thanjavur	Bharathidasan University	Full	71	2001	I
3.	B.E.	K.S.Rangasamy College of Technology, Tiruchengode	Madras University	Full	68.7	2000	I
4.	XII	Govt.Hr.Sec. School, Jalakantapuram	State Board	Full	69.75	1996	I
5.	X	Govt.Hr.Sec. School, Jalakantapuram	State Board	Full	71.4	1994	I

Employment details with Experience:

S.No.	ORGANIZATION	DESIGNATION	PERIOD		YEAR OF EXPERIENCE
			FROM	TO	
1.	K.S.Rangasamy College of Technology, Tiruchengode.	Associate Professor	01.06.2012	Till Date	7.3
2.		Assistant Professor	01.06.2007	31.05.2012	5.0
3.		Senior Lecturer	01.06.2005	31.05.2007	2.0
4.		Lecturer	24.04.2002	31.05.2005	3.1
Total					17.4

Awards Received

- Best paper award for presented paper on ‘, Microcontroller based reconfigurable IOT node’, in the 4th International conference on Frontiers of Signal Processing, 24-27 September, 2018, Poitiers, France.
- Certification of Appreciation for mentoring projects submitted to Texas Instruments Innovation Challenge India Design Contest 2015 & 2018

Funds Received

1. Received a grant of Rs. 9,41,000 for the Research Project titled ‘Smart Monitoring of Turmeric Crop: A Cyber Physical System Architecture in the field of Precision Agriculture’ from AICTE RPS in April 2019 for a period of 3 years.
2. Received a grant of Rs.26,30,000 for the Research Project titled ‘Development of Computational Tool for Early Detection of Cardiovascular Diseases through Analysis of Data from otherwise Healthy Individuals’ from DBT in January 2017 for a period of 3 years.
3. Received Rs. 63,722 for the International Travel Support grant from UGC for presenting the paper in the International Conference on IEEE Region 10 Conference (TENCON), Malaysia, November 5-8, 2017.

List of Publications

INTERNATIONAL JOURNALS	
1.	Sudha S, Jayanthi K B, Rajasekaran C , Nirmala Madian, Sunder T, 2018 ,‘Convolutional Neural Network for Segmentation and Measurement of Intima Media Thickness’, J ournal of Medical Systems 42: 154, https://doi.org/10.1007/s10916-018-1001-y
2.	Rajasekaran, C , Jeyabharath, R &Veena, P 2017,‘ FPGASoC Based Multichannel Data Acquisition System with Network Control Module ’, Circuits and Systems, Vol. No. 8, pp. 53-75.
3.	Rajasekaran, C ,Nirmala, M & Jayanthi ,K, B 2017, ‘Glucose Monitoring System Using Nanopellets’, IET Nanobiotechnology, Volume 11, Issue 1, pp. 91 – 95.
4.	Babu, P & Rajasekaran, C 2016, ‘Denoise based Algorithm for Active Noise Control Systems using Genetic Algorithm’,Asian Journal of Research in Social Sciences and Humanities Vol. 6, No. 7, pp. 1917-1929.
5.	Babu, P & Rajasekaran, C 2016, ‘Economically Precise Water Resource Management for Domestic Usage in India’, Circuits and Systems, Vol. No. 7, pp. 2821-2828.
6.	Rajasekaran, C , Jayanthi ,K, B, & Nirmala, M 2016 , ‘Non Invasive Glucose Monitoring System Using Nanosensors’, Sensors & Transducers, Vol. 198, Issue 3, March 2016, pp. 32-36.
7.	Jeyabharath, R, Rajasekaran, C & Veena, P 2014, ‘Enhanced Data Acquisition System Using Embedded Ethernet for Industrial Applications’, Research Journal of Applied Sciences, Engineering and Technology, vol. 8, issue 16, pp. 1814-1823.
8.	Rajasekaran, C , Jeyabharath, R & Veena, P 2014, ‘Design and Development of a FPGA based High Speed Data Acquisition System’, International Journal of Applied Engineering Research, vol.9, no.23, pp. 19977-19990.
9.	Rajasekaran, C , Jeyabharath, R & Veena, P 2014, ‘Hardware-Software Reconfigurable Techniques for Wireless Sensor Network’, Research Journal of Applied Sciences, Engineering and Technology, vol. 8, issue 17, pp.1855-1862.
10.	Velmurugan,S , Rajasekaran,C 2014, ‘ A Reconfigurable On-Chip Multichannel Data Acquisition and Processing (DAQP) System with Online Monitoring Using Network Control

	Module ', International Journal of Communication and Computer Technologies Vol.02 , No.01.
11.	Priyadarshini,V, Rajasekaran, C & Jithinkumar, M ,V 2012 'A Novel VLSI Architecture with Reduced Hard multiple based on higher radix hybrid modified booth algorithm', International Journal of Programmable Device Circuits and Systems, Vol. 4, No. 2 , January 2012, DOI 0974-9691.
National & International Conference	
1.	Rajasekaran C , & Raguvaran, K 2018, 'Microcontroller based reconfigurable IOT Node', Proceedings of 4 th International conference on Frontiers of signal Processing (ICFSP 2018), September 24-27, 2018, Poitiers, France.
2.	Rajasekaran C , & Akshaya ,P 2018, 'Smart digital hundi for identification of Indian coin and currency using Image processing', IEEE Proceedings of the 2nd International conference on Electronics, Communication and Aerospace Technology (ICECA 2018), 29-31 March 2018.
3.	Madhumithra M, Mayuriya M, & Rajasekaran C 2018, 'Sensor based Smart Helmet System with Vehicle Theft Protection', IEEE Proceedings of the 2nd International conference on Electronics, Communication and Aerospace Technology (ICECA 2018), 29-31 March 2018.
4.	Rajasekaran C , Jayanthi K B, NirmalaMadian, Thyagarajah K 2017, 'Analysis on Various Segmentation Techniques – IMT Measurement of Common Carotid Artery', Proc. of the 2017 IEEE Region 10 Conference (TENCON), Malaysia, November 5-8, 2017.
5.	Swathi,P & Rajasekaran,C 2016, ' Improving the Lifetime with area maximization of Wireless Sensor Network using mobile sink based adaptive immune energy efficient clustering protocol , ' 2 nd International Conference on Advanced Technologies for Research and product development.
6.	Mohanapriya , A & Rajasekaran,C 2016, ' Big data Traffic Analysis of Cellular Network using Hadoop, 'International Conference on Electrical, Electronics & Computer Engineering.
7.	Nithya, S & Rajasekaran, C 2016, ' Parallel Processing for medical Image Enhancement based on sub Image Clipped Histogram Equalization, '2 nd International Conference on Advanced Technologies for Research and product development.
8.	Swathi,P , Rajasekaran, C & Sripriya , N2016, ' Improving the Lifetime and stability period of Wireless sensor network by mobile sink based adaptive immune energy efficient

	clustering protocol , ‘ IEEE Sponsored 3 rd International Conference on Electronics and Communication Systems .
9.	Dhivya, T & Rajasekaran, C 2016, ‘Error reduction in fixed width booth multiplier using error compensation unit,’Internal Conference on Innovations in Information, Embedded and Communication Systems.
10.	Abinayagi, E, Rajasekaran, C & Chitra, N 2016, ‘Denoising of QR Barcodes,’International Conference on Innovations in Information, Embedded and Communication Systems.
11.	Subhashinee, A & Rajasekaran,C 2016, ‘Carry Speculative Adder with Variable Latency forLow Power VLSI, ‘IEEE International Conference on Wireless Communications, Signal Processing and networking.
12.	Abinayagi , E, Rajasekaran, C & Chitra , N 2016 , ‘Denoising of QR Barcodes with Electronic Health Records in Big data, ‘International Conference on Electrical, Electronics & Computer Engineering.
13.	Nithya, S, Rajasekaran, C & Santhi, K, 2016, ‘Image Enhancement via sub Image Clipped Histogram Equalization, ‘IEEE Sponsored 3 rd International Conference on Electronics and Communication Systems.
14.	NavinKarthi, P & Rajasekaran, C 2015, ‘Energy Garnering Sensor Networks Hardware Vivaciously Reconfigurable by HW core Algorithm, ‘International Conference on Innovations in Information Embedded and Communication Systems.
15.	Revathi , P & Rajasekaran,C 2015, ‘ Energy Efficient wireless monitoring system for agrarian areas in Indian agricultural system using GPRS module,’ International Conference on Communication and Signal Processing.
16.	Rubini, M & Rajasekaran, C 2014, ‘Design of High Performance System-on-Chips Using Field Programmable Gate Arrays (FPGA), ‘International Conference on Communication and Signal Processing.
17.	Kirubakaran, B & Rajasekaran, C 2014,‘ Embedded HW-SW Reconfigurable techniques for Wireless sensor Network Applications,’ International Conference on Computation of Power, Energy, Information and communication.

18.	Jijo Thomas & Rajasekaran, C 2013 ,‘Real Time Data Acquisition system with self Adaptive sampling rate using GPU’, International Conference on Pattern Recognition, Informatics and Mobile Engineering.
19.	Velmurugan,S & Rajasekaran, C 2013, ‘A reconfigurable on chip multichannel data acquisition and processing(DAQP)system for multichannel signal processing’, International conference on Pattern Recognition , Informatics and Mobile Engineering, pp. 109-114.
20.	Murugeswari G and Rajasekaran C 2012, ‘Realization of Embedded automotive system based on dual core processor’, International Conference on Emerging Trends in Computer and Communication Technology.
21.	Karthika M and Rajasekaran C 2012, ‘Energy Minimization of Scratchpad Memory Using Optimal SPM Mapping and Memory Power - Down Scheduling’, International Conference on Advances in Electrical and Electronics, Communication and Bio-Informatics.
22.	Vanitha K and Rajasekaran C 2010, ‘Low power multiplier based zero shift and add architecture using ring counter’, International Conference on Computational Systems and Communication Technology.
23.	Nagaraju N and Rajasekaran C , ‘Industrial Development of the remote I/O data acquisition system based on embedded ARM platform’, National Conference on System Design and Information, March 2011.
24.	Sakthivel B and Rajasekaran C , ‘Efficient Communication between the advanced RISC processor and its reconfigurable logic using VLSI technology’, National Conference on Telecommunication in Health Care Engineering, March 2011.
25.	Shanmugasundaram P and Rajasekaran C , ‘A Low power open multimedia application platform for 3G wireless’, National Conference on Emerging Trends in Communication and Information Technology’, February 2010.
26.	Prabu R and Rajasekaran C , ‘An interpolation processor implementation for soft decision reed Solomon decoding’, 5 th National Conference on Application of Emerging Technologies, March 2008.
27.	Anitha R and Rajasekaran C , ‘Feed forward hetero associative Technique for pattern recognition’, National Conference on Emerging Trends in Networks and high performance Communication System’, February 2006.

List of Workshops / Seminar / STTP/FDPs Organized

Sl. No.	Title	Venue	Duration	Sponsoring Authority
1.	FDP on “Engineering Challenges for Smart & Digital India: Internet of Things (IoT) and Applications”	K.S.Rangasamy College of Technology, Tiruchengode	20.11.2017-01.12.2017	AICTE
2.	Symposium on “Internet of Things: Unlocking New Solutions in Healthcare”	K.S.Rangasamy College of Technology, Tiruchengode	13.10.2017-14.10.2017	ICMR
3.	Seminar on “Deep Learning: Smart Tool for Big Data Challenge in Healthcare”	K.S.Rangasamy College of Technology, Tiruchengode	22.07.2017-23.07.2017	ICMR
4.	Workshop on “Translational Engineering in Medicine: A Bridge to Improve the Quality of Healthcare”	K.S.Rangasamy College of Technology, Tiruchengode	15.04.2016-16.04.2016	DBT
5.	National Conference on ‘Embedded Computing and Communication Systems’	K.S.Rangasamy College of Technology, Tiruchengode	04.04.2014-05.04.2014	IEEE Madras Section
6.	National Conference on ‘Emerging Trends in Communication and Information Technology’	K.S.Rangasamy College of Technology, Tiruchengode	19.04.2013	CSIR
7.	SDP on “Image Processing and its Application: A Decision Support System for Healthcare”	K.S.Rangasamy College of Technology, Tiruchengode	30.04.2012-11.05.2012	AICTE
8.	National Conference on ‘Emerging Trends in Communication and Information Technology’	K.S.Rangasamy College of Technology, Tiruchengode	02.03.2012-03.03.2012	CSIR
9.	SDP on “Pattern Recognition for Medicine: A Knowledge Engineering Approach”	K.S.Rangasamy College of Technology, Tiruchengode	20.06.2011-01.07.2011	AICTE

List of Workshops / Seminar / STTB/FDPs Attended

Sl. No.	Title	Venue	Duration
1.	Workshop on Deep Learning	Institute of Management Technology, Hyderabad	07.01.2019-08.01.2019
2.	Conference	India Electronics WEEK, Bangalore	09.02.2018
3.	Student Branch officers meet	IEEE Madras Section	05.02.2017
4.	MathWorks India Technical Meet	MathWorks, Bangalore	20.08.2016
5.	Technical Communication for Scientists and Engineers	IIT Bombay	30.10.2015-06.12.2015
6.	Business Analytics 1 st conference 2015	Indian Statistical Institute, Chennai	28.02.2015-01.03.2015
7.	Pedagogy for Effective use of ICT in Engineering Education	IIT Bombay	05.01.2015 & 19.01.2015
8.	Hands –on with ARM: Programming Embedded systems	CDAC, Hyderabad	12.12.2011-23.12.2011
9.	Sensor interface & Integration in R & D Work	PSG College of Technology, Coimbatore	26.09.2011-28.09.2011
10.	NI Lab VIEW Core 1 & Core 2	National Instruments, Bangalore	04.07.2011-08.07.2011
11.	Development of Embedded system using C for ARM with Extensive hands on Experience	Anna University ,Chennai	07.01.2010-08.01.2010
12.	Leveraging Technology for Effective Teaching in the Classroom & Beyond	IIT-Bangalore	01.03.2010-25.06.2010
13.	Engineering Pedagogy	S.D.M.institute of Technology, Ujire	29.07.2010-31.07.2010
14.	Design Trends in Deep – submicron CMOS VLSI	Anna University, Chennai	28.03.2008-29.03.2008
15.	Digital signal processing an Embedded systems	VNRVJIET @CDAC, Hyderabad	18.08.2008-20.08.2008
16.	Orientation Programme	Anna University, Coimbatore	07.06.2008-08.06.2008
17.	Communicative English	Col's CALIBRE	06.10.2008-27.10.2008

18.	Advanced wireless and optical Networks	Bannari Amman Institute of Technology	15.12.2007
19.	Lab view Advanced including training DAQ vision and mission	PSG college of Technology ,Coimbatore	14.05.2007-18.05.2007
20.	Training the trainer	Infosys Technology, Chennai	08.12.2006-09.12.2006
21.	VLSI Signal Processing	Muthayammal Engineering college ,Rasipuram	20.11.2006-01.12.2006
22.	Electromagnetic waves and waveguides	College of Engineering Guindy, Chennai	05.12.2005-17.12.2005
23.	Embedded System	Institute of Road and Transport Technology, Erode	15.11.2004-28.11.2004
24.	Advanced EDA tools(ORCAD)	Government College of Technology, Coimbatore	18.02.2004
25.	Embedded Architecture	Kongu Engineering College, Erode	24.11.2003-29.11.2003

Details of Membership In Professional Societies

S. No.	Name of Professional Body	Grade of Membership	Membership No.
1.	IEEE	Professional	92134320
2.	IETE	Life Member	M217722
3.	ISTE	Life Member	LM42838

Dr.C.Rajasekaran