


A1	Personal Details	
Dr. V.Saravanan		
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Department of Electronics and Communication Engineering		
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A2	Areas of Interest	Signal Processing
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A3	Subjects Taught	
	UG	PG
	Speech Processing	VLSI Signal Processing
	Signals and Systems	CMOS VLSI Design
	VLSI Design	Low Power VLSI Design
	Computer Architecture	
	Transducer Engineering	

A4	Academic Background			
Degree	Specialization	Name of the Institute	University	Month and Year of Passing
Ph.D.	Signal Processing	Knowledge Institute of Technology, Salem	Anna University	July 2022
M.E.	VLSI Design	K.S.Rangasamy College of Technology, Tiruchengode	Anna University of Technology, Coimbatore	May 2010
B.E.	Electrical and Electronics Engineering	K.S.Rangasamy College of Technology, Tiruchengode	Anna University	May 2005

A5		Work Experience as on Nov 2022					
Name of the Institution		Position		From		To	
Knowledge Institute of Technology, Salem		Assistant Professor		May 2011		Present	
K.S.Rangasamy College of Technology, Tiruchengode		Assistant Professor		June 2010		April 2011	
		Lecturer		June 2006		May 2010	
SSM College of Engineering, Komarapalayam		Lecturer		July 2005		May 2005	
<b>Total Experience</b>	17 Years 5 Months	<b>Teaching</b>	17 Years 5 Months	<b>Research</b>	11.0 Years	<b>Administration</b>	-

A6		Research Publications				
Total Number of Publications		International Journal	National Journal	International Conference	National Conference	Total
		5	2	6	8	21
Publications (Journals)						
S.No	Authors	Title of the Article	Name of the Journal	Year, Vol. , No. pages		
1.	V.Saravanan N.Santhiyakumari	An Active Noise Control System for Impulsive Noise Using Soft Threshold FxLMS Algorithm with Harmonic Mean Step Size	Wireless Personal Communications (Springer)	Vol 109, Issue 4, Page 2263-2276, 2019		
2.	V.Saravanan N.Santhiyakumari	An Adaptive Step- Size Using Modified FxLMS Algorithm for Feedforward Active Noise Control Systems Based On a New Online Secondary Path Modeling Technique	Journal of Electrical Engineering	Accepted for Publication		
3.	K.Gomathi V.Saravanan N.Santhiyakumari	Variable step size for improving convergence of FxLMS algorithm	Procedia Technology	Jan 2016, Vol.25 Pages:420-426		
4.	E.Priya V.Saravanan N.Santhiyakumari	Narrowband Noise FxLMS Algorithm in VLSI Implementation for Active Noise Control	International Journal of Innovative Research in Science, Engineering and Technology	May 2015, Vol.4 Pages:694-701		

5.	K.Gomati P.Elamati V.Saravanan P.Shanmuga Sundaram	Patient Medicine Remainder System using UTLP Kit	International Journal of Innovative Research in Science, Engineering and Technology	May 2015, Vol.4 Pages:702- 708
6.	M.Devipriya V.Saravanan N.Santhiyakumari	Power Efficient Implementation of Least Mean Square Algorithm Based Fir Filter Design Using FPGA	i-Manager's Journal on Digital Signal Processing	2014, Vol.4, Pages:14-21
7.	V.Saravanan	FPGA based modified FXLMS algorithm for feedforward active noise control systems	Elixir International Journal on Electrical Engineering	2013, Vol. 56A Pages:13641- 13644
8.	V. Saravanan, A. P. Nithya, R. Ramya	Active Noise Cancellation Based on Adaptive FxLMS Algorithm	Journal of Science and Engineering	2013, Vol:3(2) Pages:45-49
<b>International Conference</b>				
9.	K.Gomathi V.Saravanan N.Santhiyakumari	Variable Step Size for improving convergence of FxLMS algorithm	International conference on Global colloquium in Recent Advancement and Researches in Engineering Science and Technology (RAEREST)	April 2016
10.	V.Saravanan N.Santhiyakumari	A modified FXLMS algorithm for active impulsive noise control	<a href="#">2015 IEEE International WIE Conference on Electrical and Computer Engineering (WIECON- ECE)</a>	19-20 Dec. 2015 Pages:222 – 226
11.	E.Priya V.Saravanan N.Santhiyakumari	Active noise control system for narrowband noise using FxLMS algorithm	2015 International Conference on <a href="#">Communications and Signal Processing (ICCSP)</a> ,	2-4 April 2015 Pages:0374 – 0378
12.	V.Saravanan N.Santhiyakumari	A two level variable step size FxLMS algorithm for active noise control system	2015 IEEE International Conference on Electrical, Electronics, Signals, Communication and Optimization(EESCO),	24-25 Jan. 2015 Pages:1-5
13.	M.Devipriya V.Saravanan N.Santhiyakumari	FIR Adaptive filter design using distributed arithmetic based Block LMS architecture	International Conference on Innovations in Information Embedded and Communication Systems	2014 Pages:372- 378
14.	P.Babu A.Krishnan V.Saravanan	A New variable Threshold bases ANC system for improving performance	IEEE International conference on advances in Computer Engineering	2010 Pages:100- 104

National Conference				
15.	Sakthi Gopinath E Sathishkumar A Priyanka M Saravanan.V	IoT Based E-Nose to Detect Poisonous Gaseous and Temperature in Mines	National Conference On Recent Trends In Communication And Information Technology	2018
16.	Nandhini N Priyanga N Saranya V Saravanan.V	Sanitation Workers Safety Alert System	National Conference On Recent Trends In Communication And Information Technology	2018
17.	Anitha M Harsha Sharma V Hari Haran A Dharankumar J Saravanan.V	Smart Bag for School Children	National conference on Emerging Trends in Engineering and Technology	2017
18.	R,Dinesh, Harish.J, Gowtham E, Devaraj.R Saravanan.V	Smart Security System using Embedded Systems	3 <sup>rd</sup> National Conference on Recent Trends in Communication and Information Technology(RTCIT-16)	2016
19.	Sugumar.K Susanna Evangeline Vignesh.S Yogalakshmi.S Saravanan.V	Multi Sensor Remote Home security system using LabVIEW	3 <sup>rd</sup> National Conference on Recent Trends in Communication and Information Technology(RTCIT-16)	2016
20.	E.Priya V.Saravanan N.Santhiyakumari	VSFxLMS algorithm to improve the convergence of narrow band active noise control	National Conference on Modern Embedded and Communication Systems	2015 Pages: 10-15
21.	S.Mahesh R.Gokul R.Keerthana R.Monisha V.Saravanan	Wavelet Based ECG Steganography	National Conference on Versatile Automation	2015 Page:42
22.	M.Devipriya V.Saravanan N.Santhiyakumari	Low Power Efficient and High Throughput FIR Adaptive filter based BLMS technique	National conference on Emerging trends in Communication and Networking (ETAN-2014)	2014 Pages:47-52
23.	M.Devipriya V.Saravanan	Low Power Implementation of DA Based FIR adaptive filter	3 <sup>rd</sup> National conference on Research Advances in Communication, Computation, Electrical Science and Structures (RACCESS'14)	2014 Page:62
24.	M.Devipriya V.Saravanan N.Santhiyakumari	Implementation of Distributed Arithmetic Based FIR Adaptive filter	National Conference on Innovations in Information Technology (NCIIT-2014)	2014 Pages:343-347

25.	K.Boobalan A.Lavanya M.Ramesh A.Sathya V.Saravanan	LabVIEW Based Identification of needs of multiple disabilities	National conference on Electronics, Innovative Technology and Communication Engineering	2014
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<b>A7</b>	<b>Memberships in Professional Bodies</b>
<b>S.No.</b>	<b>Name of the Professional Body</b>
1	Indian Society for Technical Education (ISTE) – Lifetime Member
2	Institution of Electronics and Telecommunication Engineers (IETE)-Life member

<b>A8</b>	<b>Programs Organized</b>
1.	<b>9<sup>th</sup> National level technical symposium “IMAGE-19”</b>
2.	Two Weeks workshop on “ Analog Electroincs” in association with IIT Kharagpur
3.	Two Weeks workshop on “ Signals and Systems” in association with IIT Kharagpur
4.	3 <sup>rd</sup> National Level Technical Symposium “ KNOWMEET”
5.	1 <sup>st</sup> and 2 <sup>nd</sup> National Conference Recent Trends in Communication and Information Technology (RTCIT)

<b>A9</b>	<b>Consultancy Works</b>
1.	Active Noise Cancellation in Mixer Grinders and Blowers sponsored by ELGI Ultra Industries, Coimbatore

<b>A10</b>	<b>Highlights of Major Contributions</b>
1.	Admission coordinator for B.E (ECE)
2.	Academic Coordinator
3.	Association Coordinator for the department ( 2012-2013)
4.	Coordinator for the research proposals submitted to the various funding agencies (2012-2013,2013-2014)
5.	Coordinator for Major activates in Annual Day and Graduation Day (2014,2015,2016)
6.	Coordinating the NAAC and NBA Accreditation
7.	Coordinator for the VIDART Club
8.	Coordinated the Finance and Resource Persons during INSPIRE Science camp for school students
9.	Coordinated the Finance and Event management in AICTE sponsored FDP on Advances in Medical Imaging using Computational Intelligence

<b>A11</b>	<b>Training Programmes Attended</b>
1.	AICTE Sponsored FDP on “ Introduction to Research”
2.	ATAL Academy Online FDP on "Data Science"
3.	ATAL Academy Online FDP on "Internet of Things (IoT)"
4.	AICTE online workshop on Universal Human Value on the theme “Inculcating Universal Human Values in Technical Education
5.	Workshop on Effective Mentoring
6.	Workshop on EXPLORING OUTCOME BASED EDUCATION AND NBA PROCESS
7.	SDP on DIGITAL SYSTEM DESIGN WITH VERILOG AND VIVADO
8.	Short Term Course on " Learn to Design Your Own Solar Home System
9.	FDP on "Online Teaching Material Preparation and Delivery Strategies
10.	Attended webinar on “HOW TO CONDUCT ONLINE COURSES TO STUDENT” conducted by Pondicherry Engineering College
11.	AICTE approved FDP on “ Pedagogy for Online and Blended Teaching – Learning Process” conducted by IIT Bombay
12.	AICTE approved FDP on “ Foundation Program in ICT for Education – Learning Process” conducted by IIT Bombay
13.	Two week ISTE STTP on “ CMOS,Mixed Signal and Radio Frequency VLSI Design” conducted by IIT Kharagpur
14.	IEEE MAS sponsored Faculty Development Programme on “ Medical Informatics Extraction using Soft Computing techniques” conducted by KIOT
15.	Participated in one day workshop on “ Outcome based Education for HEI” organized by CII at Coimbatore
16.	Participated in four days “ Academic leadership Workshop” under Mission10X at Wipro Technologies, Bangalore
17.	Attended two days workshop on “ Organizational Effectiveness” conducted by HRD Cell, Knowledge Institute of Technology, Salem
18.	Participated in two weeks ISTE STTP on “ Technical Communication” conducted by IIT Bombay
19.	Participated in two weeks ISTE STTP on “ Security Solutions in Networks” conducted by IIT Bombay
20.	Participated in one week coordinator workshop on “ Analog Electroincs” at IIT Kharagpur
21.	Participated in one week coordinator workshop on “ Signals and Systems” at IIT Kharagpur
22.	Participated in two day ISTE workshop on “ Aakash for Education” conducted by IIT Bombay
23.	Participated in AICTE sponsored two weeks FDP on “ Advances in Medical Imaging using Computational Intelligence” at Knowledge Institute of Technology, Salem
24.	Participated in IEEE MAS sponsored two day workshop on “Research Challenges in Signal Processing” at Knowledge Institute of Technology, Salem
25.	Participated in workshop on “ Image and Signal Processing” at IIIT Hyderabad
26.	Participated in workshop on “Enhancing Research and Publishing Skills” at Mahendra Engineering College

27.	Participated in IEEE MAS sponsored two days workshop on “ Next generation Wireless Networks” at Knowledge Institute of Technology, Salem
28.	Participated in workshop on “ Vaaname Ellai – a Self-Empowerment Programme” conducted at TVS Training and Services Ltd, Chennai

<b>A12</b>	<b>Special Lectures Presented</b>
1.	Delivered Session on “ Artificial Intelligence supported surgery” in AICTE Sponsored STTP on “Applications of Artificial Intelligence Technique in Overcoming the Challenges of Healthcare Industry”
2.	Delivered session on “ Framework for defining PO/PEOs and Mapping “ to Polytechnic faculty members
3.	Delivered session on “Interfacing and Controlling of Sensors using LabVIEW” in TEQIP III Sponsored Faculty Development Programme on ‘Embedded Control and Monitoring using LabVIEW’ conducted by Government College of Engineering, Salem on 29.02.2020
4.	Delivered a special lecture on Analysis and Synthesis of Signals using Transforms to M.E. VLSI Design

<b>A13</b>	<b>Awards</b>
1	Received Best Faculty Award for the AY 2019-2020
	Received Best Faculty Award for the AY 2014-2015
2	Received Best Research Contribution Award for the AY 2013-2014
3	Received Achiever Award during the Achievers day 2016 ( AY 2015-2016)