

**PERSONAL DETAILS AND AFFILIATION**

<b>Name of the Faculty Member</b>	<b>Dr.A.Saravanaselvan</b>	
<b>Designation</b>	<b>Associate Professor</b>	
<b>Department</b>	Electronics and Communication Engineering	
<b>Date of joining the institution</b>	12.07.2004	
<b>Date of Birth</b>	03.04.1981	
<b>Address for Communication</b>	Department of ECE, National Engineering College, K.R. Nagar, Kovilpatti-628 503	
<b>Email ID/webpage ID</b>	<a href="mailto:saravanaselvan@nec.edu.in">saravanaselvan@nec.edu.in</a> ORCID ID: <a href="https://orcid.org/0000-0002-5918-9456">https://orcid.org/0000-0002-5918-9456</a>	
<b>VIDWAN ID</b>	286249 <a href="https://vidwan.inflibnet.ac.in/profile/286249">https://vidwan.inflibnet.ac.in/profile/286249</a> Vidwan score: 6.8	
<b>SCOPUS ID</b>	<a href="https://scopus.com/authid/detail.uri?authorId=53871940600">53871940600</a>	

**EDUCATIONAL QUALIFICATION**

<b>DEGREE</b>	<b>BRANCH</b>	<b>UNIVERSITY</b>	<b>YEAR</b>	<b>CLASS</b>
B.E.	Electronics and Communication	Periyar University, Salem	2003	First Class
M.E.	Applied Electronics	Anna University of Technology, Tirunelveli	2011	First Class
Ph.D.	Wireless Sensor Networks	Anna University, Chennai	2021	NA

## EXPERIENCE

S.NO.	NAME OF THE INSTITUTION / ORGANIZATION	POSITION HELD	FROM	TO	EXPERIENCE	
					Y	M
1.	National Engineering College	Associate Professor	Sep 2023	Till date	0	2
1.	National Engineering College	Assistant Professor (Senior Grade)	July 2013	Aug 2023	10	1
2.	National Engineering College	Assistant Professor	July 2011	June 2013	1	11
3.	National Engineering College	Lecturer	July 2004	June 2011	7	1
4.	PSY Engineering College	Lecturer	June 2003	June 2004	1	0
<b>Total Experience</b> <b>20 Years 3 months</b>					20	3

## SPONSORED RESEARCH PROJECTS

S.NO.	TITLE OF THE PROJECT & ROLE	AGENCY	DURATION
1.	An Intelligent device to classify organic and non organic fruit and vegetable items using non destructive IR Thermography technique - <b>Incubatee as PI</b>	Ministry of Micro, Small & Medium Enterprises	July 2022 – July 2024 <b>(In-progress)</b>
2.	A New Framework for Water Resource Management using IoT Technology – <b>Principal Guide</b>	The Institution of Engineers, India	Sep 2019-Sep 2020 <b>Completed</b>
3.	Automatic Grain Separator – <b>Knowledge Partner</b>	Entrepreneurship Development & Innovation Institute (EDII), Chennai	July 2021 – Mar 2022 <b>Completed</b>

## HONOURS

TITLE	DOMAIN	AGENCY	YEAR
Successful Project Completion Certificate	Internet of Things	Institution of Engineers India, Kolkata	2022

## PATENT PUBLISHED

S.NO.	TITLE OF THE INVENTION	DOMAIN	APPLICATION No	PUBLICATION DATE
1	Green Energy Generation using Solar, Wind and Mechanical Systems	Energy Sector	24921/202141012213	22.03.2021

## PUBLICATIONS

### JOURNALS

1.	P. Anitha ., K. Karthik Kumar ., M. Ravindran ., <b>A. Saravanaselvan</b> , “Evolutionary Algorithm Based Z-Source DC-DC Boost Converter for Charging EV Battery”, Intelligent Automation and Soft Computing, Volume 34, Year 2022, Pages 1377-1397.
2.	Mani V.R.S.; <b>Saravanaselvan A.</b> ;Arumugam N, “Performance comparison of CNN, QNN and BNN deep neural networks for real-time object detection using ZYNQ FPGA node”, Microelectronics Journal, <b>ELSEVIER</b> Publication, Volume 119, Year 2022.
3.	<b>Saravanaselvan A</b> and B Paramasivan, “Design and Implementation of attack resilient computation algorithm in WSN nodes”, Cluster Computing, Springer Publication, Volume 22, Year 2019, Pages 3301-3311.
4.	<b>Saravanaselvan A</b> and Paramasivan B, “Implementation of an efficient light weight security algorithm for energy-constrained wireless sensor nodes”, Circuits and Systems, 7, 2016, pp. 2234-2241, <a href="http://dx.doi.org/10.4236/cs.2016.79194">http://dx.doi.org/10.4236/cs.2016.79194</a> .
5.	<b>Saravanaselvan A</b> and Paramasivan B (2016), ‘An enhanced approach of message digest scheme for FPGA-based sensor node’, Asian Journal of Information Technology, 15(22), pp. 4571-4577. <a href="https://10.3923/ajit.2016.4571.4577">https://10.3923/ajit.2016.4571.4577</a> .
6.	<b>Saravanaselvan A (2013)</b> , ‘Performance Analysis of NNs For GPS / INS Integration’, Applied Artificial Intelligence – An International Journal, <b>Taylor and Francis</b> , volume 27, Issue 5, May 2013, pp.367-407. <b>factor: 0.5</b>
7.	Saravanaselvan A (2011), ‘Performance Analysis of various Artificial Intelligence Neural Networks for GPS/INS Integration’, International Journal of <b>Soft Computing</b> , volume 6 Issue 5, No.6, pp. 190 – 209, 2011 <b>factor: 0.4</b>
8.	<b>Saravanaselvan A (2019)</b> , ‘Utility Meter for Measuring Power Consumption of Household Appliances’, A Journal of Composition theory, Vol.12, Issue 9, September 2019, pp. 1659-1663.ISSN: 0731-6755.

9.	<b>Saravanaselvan A</b> (2019), 'A New Technique to Efficient Water Consumption System using ARM7', International Journal of Research in Electronics, Volume 2, Issue 2, PP. 16-19, 2015.
10.	<b>Saravanaselvan A</b> (2014), 'SAR protocol based secure data aggregation', International Journal of Innovative Research in Electronics and Communications, 1(9), 2014.
11.	<b>Saravanaselvan A</b> (2016), 'A primitive polynomial approach for providing message integrity In FPGA based wireless sensor nodes', International Journal of Printing, Packaging and allied Sciences, volume 4, no 3, pp. 1576-1582, December 2016.
12.	<b>Saravanaselvan A</b> (2017), 'Data acquisition system for real time monitoring in windmill', International Journal of Innovations & Advancement in computer science, Volume 6, Issue 8, August 2017, pp. 223-226, ISSN 2347 – 8616.

## CONFERENCES

1.	<b>Saravanaselvan A</b> (2011), 'Improved IDDNN for GPS/INS Integration', CCSEIT 2011, Springer LNCS – CCIS Series, pp. 654-672, 23-25 September 2011.
2.	<b>Saravanaselvan A</b> (2012), 'Comparison of Static and Dynamic Neural Networks of GPS/INS Integration for Aircraft Navigation', International conference proceedings, ICON3C, GCE, Tirunelveli
3.	<b>Saravanaselvan A</b> (2014), 'Design and Implementation of Energy Aware Sensor Node with its Wireless applications', International conference on Research vogues in Information and Communication Technologies, ICRVICT 2014, DMI Engineering College, 2014.
4.	<b>Saravanaselvan A</b> (2014), 'Implementation of LEACH Protocol on Low Power Microcontroller', International conference on Innovations in Information Embedded and Communication systems, ICRVICT 2014, DMI Engineering College, pp.176-182, 2014.
5.	<b>Saravanaselvan A</b> (2015), 'SAR Protocol based secure data aggregation in wireless sensor Networks', IEEE Sponsored International conference on Intelligent systems and control, Karpagam college of engineering, 9-10 Jan 2015.
6.	<b>Saravanaselvan A</b> (2016), 'Implementation of steganography technique for sensor nodes in Mission critical applications', IEEE sponsored Int.conf on ICIECS'16, Karpagam, College of Engineering, coimbatore.
7.	<b>Saravanaselvan A</b> (2005), 'A Noblest act on Medicinal Plant – A Nanotech Approach', Proceedings of National conference on Recent trends in science and technology, RTST 2005, Dr.M.G.R Educatonal and Research Institute, Chennai, 2005.
8.	<b>Saravanaselvan A</b> (2007), 'Challenges in Indian Technical Institution in the Context of Globalization', Tenth ISTE Annual Convention, IE(I) Student,s Chapter, Tuticorin.
9.	<b>Saravanaselvan A</b> (2011), 'High performance GPS/INS Integration using MIDDNN for Aircraft Navigation', ECOM 11, Mohamed Sathak Engg.College, Kelakarai.
10.	<b>Saravanaselvan A</b> (2012), 'GPS/INS Integration for Aircraft Navigation using NNs', Proceedings of sixth National conference on Recent trends in Information technology, NCRTIT 2012, volume 6, 22 Feb 2012, KCET, Virudhunagar.
11.	<b>Saravanaselvan A</b> (2019), 'Smart Water Management System for Apartments', All India Seminar The Institution of Engineers, India – IE(I), Madurai Local Centre, 1-2 August 2019.

12	<b>Saravanaselvan A</b> (2015), 'A new approach for water consumption system and its implementation using embedded technique', Proceedings of 3 <sup>rd</sup> National Conference on Information and communication technology, 2015.
13	<b>Saravanaselvan A</b> (2023), 'Device to check for finding adulterants in oil', Journal of Pharmaceutical Negative Results, Vol.14, Issue 4, 2023.

#### WORKSHOPS/SEMINARS/CONFERENCES/TRAINING PROGRAMMES ORGANIZED

S.NO.	NAME OF THE PROGRAMME & VENUE	ACADEMIC YEAR	NO. OF PARTICIPANTS	RESPONSIBILITY
1.	Anna University Sponsored Development Programme on "VLSI Design"	2016-17	27	Coordinator
2.	Industry Sponsored Faculty Development Programme on "VLSI Technology"	2014-15	32	Coordinator
3.	AICTE Sponsored Faculty Development Programme on "Advanced VLSI Design"	2013-14	38	Coordinator

#### INDUSTRY TRAINING PROGRAMMES ATTENDED

S.NO.	NAME OF THE PROGRAMME	NAME OF THE INDUSTRY	Academic year
1	Recent trends in IoT Technologies	Digital Shark Technologies, Bangalore	2018-2019
2	FPGA Design using Verilog	Entuple Technologies, Bangalore	2020-2021
3	Machine Learning using Jetson Xavier kit	SIGETECH Embedded and Robotics Solutions Private Limited, Chennai	2023-2024

#### MEMBERSHIP DETAILS

Institution of Engineers (IEI), India: M-159440-5



SIGNATURE