

## PROFILE

### I. PERSONAL

Name : Dr.P.Marichamy  
Date of Birth/Age : 15.05.1964  
Marital Status : Married  
Nationality : Indian  
Office Address : Dean & Professor in ECE Dept  
P.S.R Engineering College (Autonomous)  
Sevalpatti (po),  
Sivakasi – 626 140, Tamilnadu State  
  
Permanent Address : 21-F, Kathiresan Kovil Street,  
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### II. EDUCATIONAL QUALIFICATIONS (Starting from Graduation onwards):

Degree	Specialization	Year of Passing	College	Name of the University
Ph.D	Wireless Communication	2002	IIT, Kharagpur	IIT, Kharagpur
M.E	Communication Systems	1993	Anna University, Chennai	Anna University, Chennai.
B.E	Electronics and Communication Engineering	1986	PSG College of Technology, Coimbatore.	Bharathiyar University, Coimbatore.

### III.ACADEMIC EXPERIENCE

Sl. No.	From	To	No. of Years	Position / Title	Institution / Industry Name
1	Feb 2012	Till Date	-	Dean & Professor in Electronics and Communication Engineering	P.S.R Engineering College (Autonomous), Sivakasi.
2	Oct 2004	Jan 2012	7.5 Yrs	Head of Section (Electrical Section)	Nizwa College of Technology, Sultanate of Oman.
3	June 2003	Sept 2004	1 Yr	Professor	National Engg College, Kovilpatti.
	July 1987	June2003	16 Yrs	Lecturer/Asst Prof	

### IV: RESEARCH

#### Google Scholar

h index : 7  
I10 index : 7  
No of citations: 283

#### Research

#### Student Research guidance – Doctoral Degrees

#### Degree Awarded:

S.No	Name of the Candidate	Date of Viva	University	Thesis Title
1	Dr. R. Raja Guru	20.07.2021	Anna University Chennai	Dynamic Spectrum Access In Next Generation Heterogeneous Cognitive Mobile Networks
2	Dr.C.KalyanaSundaram	25.01.2021	Anna University Chennai	Studies On The Identification Of Taste Disorder Through EEG Signal Analysis
3	Dr.A.Kamaraj	20.03.2020	Anna University Chennai	Studies On Reversible Logic Based Gates And Circuits For Arithmetic Operations
4	Dr. C.Narmadha	04.02.2020	PMU, Vallam	Studies On The Performance Of Energy Efficient Techniques And Its Improvement In Wireless Sensor Networks

## Research Scholars

S.No	Name of the Candidate	Register Number	University	Area of Research	Status
1	Ms. Kalaivani S GPT, Coimbatore	21244897364	Anna Univ	Nano Sensors	Course work
2	Mr.Gopinath D Ramco Institute of Tech	21144897460	Anna Univ	Non-Invasive Antennas	Course work
3	Ms.Lingeswari P PSR Engineering College	21244897527	Anna Univ	Cognitive Radio	Course work
4	Mr. Sivakumar G Ramco Institute of Tech	21144891225	Anna Univ	IOT	Course work
5	Ms. Srirenganachiyar V Ramco Institute of Tech	21244891197	Anna Univ	Biomedical	Course work
6	Ms.B.Dhanam P.S.R Engineering College	18244891514	Anna Univ	VLSI Design	Confirmation
7	Mr.Raj Kumar SVS College of Engg, Coimbatore	1414489833	Anna Univ	Indigestible Antenna	Confirmation
8	Mr.C.Balamurugan National Engineering College, Kovilpatti	1414489780	Anna Univ	Cognitive Radio - Antennas	Confirmation
9	Mr.S.Balasubramanian P.S.R Engineering College	1314489148	Anna Univ	Medical Data Mining	Confirmation

M.Tech Thesis Guided - 20

## V. PUBLICATIONS

<https://scholar.google.co.in/citations?user=8KrhqBYAAAAJ&hl=en>

### Journals:

1. C Balamurugan, P Marichamy, R Harichandran, "Performance Comparison of Microstrip Patch Antenna Using h-BN Nanoceramic Substrate and FR4 Substrate", Wireless Personal Communications, 1-16, Springer US, 2021/5/22. 0929-6212 (Sl.No. 10978 of Annex-I AU List-Jan 2021)
2. Balamurugan Chinnagurusamy, Marichamy Perumalsamy, "Multiband microstrip patch antenna using copper nano radiating element for X band and C band applications", International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, Wiley Online Library, 2021/5/18. 0894-3370 (Sl.No. 5105 of Annex-I AU List-Jan 2021)
3. Kamaraj Arunachalam, Marichamy Perumalsamy, Abirami Ramasamy, "Multi-Port Memory Design in Quantum Cellular Automata Using Logical Crossing", Inf. MIDEM, Journal of Microelectronics, Electronic Components and Materials, 51 (1) (2021), pp. 49-61 (Sl.No. 4687 of Annex-I AU List-Jan 2021)

4. Kamaraj Arunachalam, Marichamy Perumalsamy, Kavyashri K Ponnusamy, "Fault Tolerance in Reversible Logic Circuits and Quantum Cost Optimization", *Computing and Informatics*, Slovak Acad Sciences Inst Informatics, Vol. 39, No.5 pp 1099-1116, 2020, ISSN 1335-9150 (print), doi: 10.31577/cai\_2020\_5\_1099, Sl.No.2587 as given in Annexure I of refereed journal list in Anna University Portal.
5. C.Balamurugan, Marichamy, P, "Circular Ring-based Microstrip Patch Antenna for harvesting the RF Signal at Wi-Fi Frequency Band", *Solid State Technology*, Vol.63, Iss.6, PP.12562-12570, 2020.
6. Rajaguru R., K. Vimala Devi, and P. Marichamy. "A hybrid spectrum sensing approach to select suitable spectrum band for cognitive users." *Computer Networks*, Volume 180 (2020), Article ID 107387, [https://doi.org/10.1016/j.comnet.2020.107387,2020\\_pp.1-11](https://doi.org/10.1016/j.comnet.2020.107387,2020_pp.1-11), Impact Factor 3.111, ISSN: 1389-1286, Sl.No.2558as given in Annexure I of refereed journal list in Anna University Portal
7. Sri Abinaya R, Kalyana Sundharam C, Marichamy P. (2020). FPGA control of wheelchair movement for paralyzed persons using Steady State Visual Evoked Potential signals. *International Journal of Advanced Science and Technology*, 29(7s), 1752 - 1761.
8. A. Kamaraj, Vidya. B, Sugapriya. M and P. Marichamy, "Square & Cube Computation using Vedic Algorithms in FPGA", *International Journal of Nanoelectronics and Materials*, Volume 13, No. 2, Apr 2020 [315-322]
9. S.Balasubramanian, P.Marichamy, "An efficient medical data classification using oppositional fruit fly optimization and modified kernel ridge regression algorithm" *Journal of Ambient Intelligence and Humanized Computing*, online ISSN 1868-5137, Springer, Jan 2020.
10. C Balamurugan, P Marichamy, R Harichandran, "Effect of h-BN nanoceramic substrate on the performance of microstrip patch antenna in S-band applications", *International Journal of RF and Microwave Computer-Aided Engineering*, Vol 30(2), John Wiley & Sons, Inc. Feb 2020.
11. Kamaraj, A & Marichamy, P 2019, 'Design of Fault-Tolerant Reversible Vedic Multiplier in Quantum Cellular Automata', *Journal of the National Science Foundation of Sri Lanka*, Vol 47(4), 2019. (ISSN No.: 1391-4588; Sl. No. 7605 – Anna University Revised Journal List, July 2019; Sl. No. 7262 – Anna University Updated list) (Impact Factor: 1.049).
12. A.Kamaraj, P.Marichamy, "Design of Integrated Reversible Fault-tolerant Arithmetic and Logic Unit", *Journal of Microprocessors and Microsystems*, Elsevier Science BV, pp 16-23, (69) 2019. <https://doi.org/10.1016/j.micpro.2019.05.009>. ISSN 0141-9331/ 1872-9436 (AU Journal List Sl.No 8000).
13. A.Kamaraj, P.Marichamy, K P Kavyashri, "Realization and Optimization of Quantum Equivalent Circuits of Reversible Combinational Circuits", *Journal of Computational and Theoretical Nanoscience*, American Scientific Publishers, 2019. ISSN: 1546-1955 (Print): EISSN: 1546-1963 (Online)
14. C.KalyanaSundaram, P.Marichamy, "EEG – Taste Classification through Sensitivity Analysis, "International Journal of Electrical Engineering and Education, 0(0), pp 1-13, SAGE Publications, eISSN: 20504578 / ISSN 00207209.
15. S.Balasubramanian, P.Marichamy, M.Piramu, "Chromosome Classification Using SVM", *Journal of Emerging Technologies and Innovative Research (JETIR)*, Vol 5, Issue 12, Dec'2018, pp. 544-547. ISSN 2349-5162. UGC Sl.No 63975
16. C.KalyanaSundaram, P.Marichamy, "Effect of Environmental Pollutants on Taste Composition Based on Electroencephalography Signal Analysis in an Indoor Environment", *Ekoloji* 27(106), PP 787-792 (2018) ISSN: 1300-1361, Publisher Foundation Environmental Protection & Research-FEPR, Turkey(AU Journal List Sl.No 3112).
17. C.Narmadha, P.Marichamy, A.E.Narayanan, "An Energy Efficient Clustering Algorithm Using Harmony Memory Search For Wireless Sensor Network, International Review On Modelling and

Simulations (IREMOS), Vol 11, No.5, 2018, pp. 373-381. ISSN 1974-9821, Scopus UGC SI No. 7908

18. C.Narmadha, P.Marichamy, A.E.Narayanan, "A Novel Energy Aware Clustering Approach to Reduce Energy Consumption in Wireless Sensor Network based on Particle Swarm optimization", *Journal of Adv Research in Dynamical & Control Systems*, Vol 10, 13-Special Issue 2018, pp. 373-381. ISSN 1943-023X, Scopus UGC SI No. 26301
19. C.Narmadha, P.Marichamy, A.Hemalatha, P.Avirajamanjula, "Improve Scalability in Wireless Sensor Networks Using Certificate Less Effective Key Management Scheme", *International Journal of Research and Analytical Reviews (IJAR)*, Vol.5, Issue 4, pp 307-314, October 2018. E-ISSN 2348-1269, P-ISSN 2349-5138. UGC SI No. 43602
20. Mhaboob Khan, A.Kamaraj, P.Marichamy C Kalyanasundaram, "Design of an Area Efficient Reversible FIR Filter using 180nm Technology", *Journal of Adv Research in Dynamical & Control Systems*, Vol 10, 13-Special Issue 2018, pp. 134-139. ISSN 1943-023X, Scopus
21. C.KalyanaSundaram, P.Marichamy, "EEG Based Strategies for Human Gustation Classification Using Spartan-6 FPGA" *Wireless Personal Communications* (2018), Springer, <https://doi.org/10.1007/s11277-018-5993-x> - ISSN 0929-6212 – (AU Journal List SI.No 10995)
22. A.Kamaraj, P.Marichamy "Design of Fault-Tolerant Reversible Floating Point Division", *Inf. MIDEM, Journal of Microelectronics, Electronic Components and Materials* 48 (3) (2018), pp. 161-171, ISSN 0352-9045 – (AU Journal List SI.No 4662)
23. C.Narmadha, P.Marichamy and A.E.Narayanan, "A Survey on Hierarchical-Based Routing Protocols for Wireless Sensor Networks", *International Journal of Pure and Applied Mathematics*, Vol.119, No. 16, 2018, 3663-3676, Special Issue, ISSN: 1314-3395.
24. C.KalyanaSundaram, P.Marichamy, R R. Devu, "Artificial Neural Network Based Brain Signal Classification of Gustatory Stimuli in FPGA", *International Journal of Pure and Applied Mathematics*, Vol.117, No. 16, 111-119, Special 2017. [ISSN: 1311-8080 (printed version 1314-3395 (on-line version))].
25. A.Kamaraj, P.Marichamy, "Design and Implementation of Arithmetic and Logic Unit(ALU)using Novel Reversible Gates in Quantum Cellular Automata", *International Journal of Advanced Computing and Communication Systems (IJACCS)*, Vol 4, Issue 3, November 2017. ISSN (Print) : 2437-9280.
26. A.Kamaraj, P.Marichamy, J.Dhivya Bharathi "Realization of N-Bit Fault Tolerant Division unit using Reversible Logic in QCA", *International Journal of Advanced Computing and Communication Systems (IJACCS)*, Vol 4, Issue 3, November 2017. ISSN (Print) : 2437-9280.
27. A.Kamaraj, P.Marichamy, S.Karthiga Devi, "Design and Implementation of Adders using Novel Reversible Gates in Quantum Cellular Automata" *Indian Journal of Science and Technology*, Vol 9(8), February 2016. ISSN (Print) : 0974-6846 DOI: [10.17485/ijst/2016/v9i8/87929](https://doi.org/10.17485/ijst/2016/v9i8/87929).
28. S. Janakiraman and P. Marichamy, "Propagation Characteristics of Millimeter-Wave Band for 5G Mobile Communications", *Indian Journal of Science and Technology*, Vol 8(26), October 2015. ISSN (Print) : 0974-6846
29. Thangam S and P. Marichamy, "Study and Survey of an Efficient Earlier Fault Detection Unit for Cloud", *International Journal of Applied Engineering Research (IJAER)*, Volume 10, Number 23 (2015), pp 43430-43437. [ISSN 0973-4562].
30. A.Kamaraj, P.Marichamy, M.Abinaya "Design of Reversible Logic based Area Efficient Multilayer Architecture Router in QCA" *International Journal of Applied Engineering Research*, Research India Publications, Vol. 10 No.1 (2015) pp. 140-144 [ISSN 0973-4562] SI No.8565 in Anx.II.
31. A.Kamaraj, P.Marichamy, S.Ramya "Design of Reversible Logic based Single Precision Floating Point Multiplier for FFT" *International Journal of Applied Engineering Research*, Research India Publications, Vol. 10 No.1 (2015) pp. 157-162 [ISSN 0973-4562] SI No.8565 in Anx.II.

32. Smitha P , Varghese Paul, Marichamy P, Sujathan K , Benshi N Jalal, “Scoring of HER2 Expression from Immunohistochemistry Images of Breast Cytology” International Journal of Applied Engineering Research 01/2015; 10(70). [ISSN 0973-4562].
33. Smitha P , Varghese Paul, Marichamy P, Sujathan K, “Analysis of Textures of Sputum Cytology Images for Lung Cancer Diagnosis Using Discrete Wavelets Transform” International Journal of Applied Engineering Research 01/2015; Volume 10, (Number 4 (2015)): 9217-9229 [ISSN 0973-4562].
34. A.Kamaraj, P.Marichamy, C.KalyanaSundaram, “Design and Implementation of A Reversible Logic Based 8-Bit Arithmetic And Logic Unit”, International Journal of Computers and Applications, ACTA PRESS, Vol 36, No.2, pp. 49-55, 2014. [ISSN: 1206212X] SI No. 8705 in Anx-II.
35. C.KalyanaSundaram, P.Marichamy, PrabhaSubburam, “Abnormality Detection of ECG Signals Using Partial Reconfiguration in FPGA”, Adv. in Nat. Appl. Sci., 8(21): pp 1-6, Special 2014. [ISSN:1995-0772/EISSN:1998-1090]SI No. 559 in Anx-II.
36. A.Kamaraj,I.VivekAnanad, P.Marichamy, “Design of Low Power Combinational Circuits Using Reversible Logic and Realization in Quantum Cellular Automata”, International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), Vol.3, Spl.Issue 3, PP 1449-1456, March 2014. [ISSN(E):2319-8753/ISSN(P):2347-6710]
37. C.KalyanaSundaram, M.Elango, P.Marichamy, “Implementation of Image Processing Algorithm Using Partial Dynamic Reconfiguration in FPGA”, International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), Vol.3, Spl.Issue 3, PP 1457-1462, March 2014. [ISSN(E):2319-8753/ISSN(P):2347-6710]
38. Sangeetha.P, Marichamy.P, Guruprakash.B, “Performance of Multi-flow Wireless Multimedia Transmissions”, International Journal of Advanced Research in Computer Science and Technology (IJARCST), Vol.2, Issue Special-1 No.21, pp. 190-195, Jan-March 2014.
39. Ramani.A, Marichamy.P, “Throughput Improvement with Decode-Forward and Compress-Forward Channels”, International Journal of Advanced Research in Computer Science and Technology (IJARCST), Vol.2, Issue Special-1 No.21, pp. 263-266, Jan-March 2014.
40. Sangeetha.P, Marichamy.P, Guruprakash.B, “A Competent Concurrent Multiflow Wireless Multimedia Transmissions”, International Journal of Advanced Information, Science and Technology (IJAIST), Vol.21, No.21, pp. 66-68, Jan-2014.
41. S. Priya, T. Ashok kumar, Varghese Paul and P.Marichamy, “Localization of Defects in Fabric Imagery Using Contrast Limited Adaptive Histogram Equalization and Mathematical Morphology”, CiiT International Journal of Digital Image Processing, Vol.4, No.14, pp.776-781, August 2012.

### **FDP/Seminars/Conferences Organized**

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- ATAL FDP on “Internet of Things (IOT)” during 4-8 Jan 2021.
- AICTE sponsored 2 week FDP on “Technical Trends in IoE, Data Science and Artificial Intelligence” during Nov & Dec 2020.
- Anna University Sponsored Faculty Development Training Programme for the Subject “Electronics Circuits-I” – June 2014.
- National Conference on ‘Emerging Communication Trends’ in March 2014

- Seminar on “Statistical and Soft Computing Techniques for Image Processing” with a financial support of DRDO in Nov.2012.
- Organized MCTS Training Programme for the students
- Organized NSDC’s Skill Development Programme for the Students

### **Honours and Assignments**

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- Awarded as ‘Exemplary Academic Administrators of Higher Education Institutes across India’ by The Academic Council of uLektz in 2019.
- ‘Employee of the Month’ award by Nizwa College of Technology, Sultanate of Oman, in the Year 2009.
- Syllabus Committee member for the Colleges of Technology, Sultanate of Oman.
- Tender Committee member for the Colleges of Technology, Sultanate of Oman.
- Board of Studies – Chairman, Academic Council - member of PSR Engineering College.
- Anti Ragging Cell member of PSR Engineering College.
- Coordinator for NAAC Preparation in PSR Engineering College.

### ***Foreign Conferences Attended***

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- Amsterdam, The Netherlands, to present a paper in IEEE VTC’99 conference in the year 1999 with the financial support of DST & CSIR
- Bangkok, Thailand, to present a paper in IEEE WPMC in the year 2000 with the financial support from a project sponsored by National Semiconductors.

### ***Lectures Delivered***

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- Lecture on ‘Handoff Techniques in Cellular Mobile Communication’ at ISTE Winter School conducted by Pondicherry Engineering College, Jan 2004.
- Lecture on ‘Wireless Communication’ at CSE, Mepco Schlenk Engg College, Sivakasi, August 2006.
- Lecture on ‘Broadband Communication’ at PSR Engineering College, Sivakasi, August-2007.
- Lecture on ‘Recent Trends in Telecommunication’ at Mannar Thirumalai Naicker College, Madurai, March 2012.
- Lecture on ‘3G Wireless Communication’ at Mepco Schlenk Engg College, Sivakasi, March 2013.
- Lecture on NAAC SAR preparation for accreditation at PSR Engineering College 2014.
- Lecture on ‘Green Wireless Communication’ at a Workshop on Green Mobile Communication (GMC-14) and Seventeenth GISFI Standardization Series Meeting organized by Rajalakshmi Institutions, Chennai, 2-4 June 2014

- Lecture on “Introduction to Electronics Circuits” in a Anna University sponsored FDP programme at PSR Engineering College, Sivakasi, 23 June-2014.
- Lecture on “Reversible Logic Techniques” at BIT, Sathy, 2015
- Lecture on NBA SAR preparation for accreditation at PSR Engineering College 2015
- Lecture on ‘Recent Developments in Wireless Communication’, SriVidhya College of Engineering and Technology, 2017.

\*\*\*\*\* Updated Nov'2021