

RESEARCH PROFILE

I. PERSONAL

Name : P. Marichamy
Date of Birth/Age : 15.05.1964
Father Name : Mr. K. Perumalsamy
Marital Status : Married
Nationality : Indian
Permanent Address : 21-F, Kathiresan Kovil Street,
Kovilpatti – 628502.
Tamilnadu.
Email : pmarichamy@psr.edu.in
Phone No. : +91- 9489796849



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	2003	Anna University, Chennai	Anna University, Chennai.
B.E	Electronics and Communication Engineering	1986	PSG College of Technology, Coimbatore.	Bharathiyar University, Coimbatore.

III.ACADEMICEXPERIENCE

Sl. No.	From	To	No. of Years	Position / Title	Institution / Industry Name
1	Feb 2012	-	7 Yrs	Dean & Professor in Electronics and Communication Engineering	P.S.R Engineering College (Autonomous), Sivakasi.
2	April 2007	Jan 2012	5 Yrs	Head of Section (Electrical Section)	Nizwa College of Technology, Sultanate of Oman.
	Oct 2004	April 2007	2.5 Yrs	Lecturer in Communication	
3	June 2003	Sept 2004	1 Yr	Professor	National Engg College, Kovilpatti.
	July 1987	June2003	16 Yrs	Lecurer/Asst Prof	

IV: RESEARCH

Google Scholar

h index : 5

I10 index : 3

No of citations: 221

M.Tech Thesis Guided - 16

Student Research guidance – Doctoral Degrees

Under Anna University

S.No	Name of the Candidate	Register Number	University Registered	Area of Research	Status
1	Mr.S.Balasubramanian P.S.R Engineering College, Sivakasi	1314489148	Anna University, Chennai	Medical Data Mining	Provisional Registration Confirmed
2	Mrs.B.Dhanam P.S.R.R. College of Engineering for Women, Sivakasi	18244891514	Anna University, Chennai	VLSI Design	Provisional Registration Confirmed
3	Mr.A.Kamaraj MepcoSchlenk Engineering College,Sivakasi	1414489180	Anna University,Chennai	Reversible Logic	Provisional Registration Confirmed
4	Mr.C.KalyanaSundaram MepcoSchlenk Engineering College,Sivakasi	1413489179	Anna University, Chennai	Reconfigurable Computing	Provisional Registration Confirmed
5	Mr.Raj Kumar SVS College of Engineering, Coimbatore	1414489833	Anna University, Chennai	Indigestible Antenna	Provisional Registration Confirmed
6	Mr.C.Balamurugan National Engineering College,Kovilpatti	1414489780	Anna University, Chennai	Cognitive Radio	Provisional Registration Confirmed

V. PUBLICATIONS

Papers in International Journals:

1. A.Kamaraj, **Dr.P.Marichamy**“Design of Fault-Tolerant Reversible Floating Point Division”,Journal of Microelectronics, Electronic components and materials Vol 48,No 3,2018.(Scopus)
2. 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) Volume5Issue3Pages 307-314, 2018
3. Kalyana Sundaram Chandran, **Marichamy Perumalsamy** “Effect of Environmental Pollutants on Taste Composition Based on Electroencephalography Signal Analysis in an Indoor Environment”,Ekoloji,2018.**Impact Factor- 0.614(Scopus)**
4. A.E.Narayanan C.Narmadha, **P.Marichamy** “An Energy Efficient Clustering Algorithm Using Harmony Memory Search For Wireless Sensor Network” ,International Review On Modelling and Simulations (IREMOS), Volume 11 Issue 5 Pages 373-381,2018.

5. **P.Marichamy** C Kalyanasundaram Mhaboob Khan, A.Kamaraj “Design of an Area Efficient Reversible FIR Filter using 180nm Technology”,Journal of Advanced Research in Dynamical & Control Systems,Volume 10 Issue 13 page 134-139,2018(**Scopus**)
6. **Marichamy Perumalsamy** Kalyansundaram C “EEG Based Strategies for Human Gustation Classification Using Spartan-6 FPGA”,Wireless Personal Communications,pages 1-13,2018(**Impact factor : 1.2**)(**Scopus**)
7. **P.Marichamy** and A.E.Narayanan C.Narmadha “A Survey on Hierarchical-Based Routing Protocols for Wireless Sensor Networks” ,International Journal of Pure and Applied Mathematics, Volume 119 Issue 16,2018.
8. **Dr.P.Marichamy** “A novel cooperative of cluster member nodes with watchdog for detecting attacker nodes”, Journal of Emerging Technologies and Innovative Research.(accepted)
9. **Dr.P.Marichamy** “Design of defense robot using wireless technology”, Journal of Emerging Technologies and Innovative Research. (accepted)
10. **Dr.P.Marichamy** “Smart grid based peak load management”, International Journal of Modern Electronics and Communication Engineering. (accepted)
11. **P.Marichamy**, A.Kamaraj, “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, 2017
12. R.R.Devu, C.Kalyana sundaram, **P.Marichamy**, “ Artificial Neural Network Based Brain Signal Classification of Gustatory stimuli in FPGA”, International Journal of Pure and Applied Mathematics, Vol 117, Issue 16, PP: 111-119, 2017.
13. S.Karthiga Devi, M.Nagalakshmi, Subraja A.Kamaraj, **P.Marichamy**, “Design and Implementation of Adders using Novel Reversible Gates in Quantum Cellular Automata”, Indian Journal of Science and Technology, Vol.9, Issue.8,pp.1-8, 2016.(**Scopus**)
14. S. Janakiraman,**P. Marichamy**, “Propagation Characteristics of Millimeter-Wave Band for 5G Mobile Communications”,Indian Journal of Science and Technology, Vol 8(26), October 2015.ISSN : 0974-564 (**Scopus**)
15. 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, pp. 140-144 , 2015. [ISSN 0973-4562] (**Scopus**)
16. V Paul, **P.Marichamy**, K Sujathan, V.S Sruthi,”Classification of Sputum Cytology Images using Radial Bias Network for Early Detection of Lung Cancer”, International Journal of Applied Engineering Research,2015. (**Scopus**)
17. 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,pp. 157-162, 2015. [ISSN 0973-4562].(**Scopus**)
18. 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].(**Scopus**)
19. Smitha P , Varghese Paul, **P.Marichamy**, 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].(**Scopus**)
20. **P.Marichamy** C.Kalyana Sundaram , M.Elango” Implementation of Image Processing Algorithm Using Partial Dynamic Reconfiguration in FPGA.” International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET),2014.
21. Kamaraj Arunachalam, **P.Marichamy**, C Kalyana Sundaram, J Senthil Kumar. “Design and implementation of a reversible logic based 8-Bit arithmetic and logic Unit”, International Journal of Computers and Applications, Vol.36, Issue 2, pp.49-54, 2014. (**Scopus**)

22. Kalyana Sundaram, **P.Marichamy**, Prabha Subburam, “Abnormality detection of ECG signals using partial reconfiguration in FPGA”, *Advances in Natural and Applied Sciences*, Vol.8, Issue 21, 2014.
23. Ramani.A, **P.Marichamy**, “Throughput Improvement with Decode-Forward and Compress-Forward Channels”, *International Journal of Advanced Research in Computer Science & Technology (IJARCST)*, Vol.2, Issue Special-1 No.21, pp. 263-266, Jan-March 2014.
24. Sangeetha.P, **P.Marichamy**, 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.
25. **P.Marichamy**, A.Kamaraj , I.Vivek Anand.” 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)*, 2014.

Papers in International Conferences:

1. R.SelvaLakshmi, **P.Marichamy**, “An Efficient Face Recognition Technique using Local Binary Descriptors”, *International Conference on Recent Trends in Multi-Disciplinary Research*, 2018.
2. **P.Marichamy**, R.Rajkumar, “Design of a body Matched Bowtie Antenna for Biomedical Applications, “International Conference on communication, Computing and Networking ICCCN-2017, NITTTR Chandigarh.
3. J.Dhivya Bharathi, A.Kamaraj, **P.Marichamy**, “Design of N-Bit Fault Tolerant Division Unit using New Reversible Gates in QCA”, *International Conference on communication, Computing and Networking ICCCN-2017, NITTTR Chandigarh.*
4. A. Kamaraj **P. Marichamy** “Design and implementation of arithmetic and logic unit (ALU) using novel reversible gates in quantum cellular automata” 4th International Conference on Advanced Computing and Communication Systems (ICACCS) Year: 2017 Page s: 1 – 8 (scopus)
5. .Lakshmiavithra S, Maharasi M, Maheshwari M and **P.Marichamy**, “Design & Development of SCADA System for solid propellant carton/Agni curing oven”, *International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)*, 16th - 18th March, 2017 at P.S.R Engineering College, Sivakasi.
6. S.Priya, **P.Marichamy**, “Performance of OFDM with Index Modulation” *International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)*, 16th -18th March, 2017 at P.S.R Engineering College, Sivakasi.
7. Kalyana Sundaram ; **Marichamy.P** ; Pradeepa, “FPGA based filters for EEG pre-processing” *Second International Conference on Science Technology Engineering and Management (ICONSTEM)”* 2016, pp.572 – 576
8. Kalyana Sundaram ; **Marichamy.P** ; Pradeepa , “P300 event detection using feature extraction technique in FPGA” *Online International Conference on Green Engineering and Technologies (IC-GET)* Year: 2016 pp: 1 - 6
9. **P.Marichamy**, K.Jeyapradha, “Performance of LTE Advanced Network due to mobility”, (ICIIECS’15) in Karpagam College of Engineering, Coimbatore, 20th March-2015.
10. S.Janakiraman and **P.Marichamy**, “Propagation Characteristics Of Millimeter-Wave Band For 5G Mobile Communications” at the International Conference on Recent Advances In Engineering And Technology (ICON’15), held on 17th April 2015 at Noorul Islam University.
11. P Smitha ; L Shajy ; **P. Marichamy**, “Quality enhancement technique for gray level immunohistochemistry images”, *IEEE International Conference on Computational Intelligence and Computing Research*, 2014(Scopus)
12. L. Shajy ; P. Smitha ; **P. Marichamy** ,” Enhancement of sputum cytology images through recursive mean separate histogram equalization and SVM classification”, *IEEE International Conference on Computational Intelligence and Computing Research* 2014

Papers in National Conferences:

1. S.Subburaj, A.Vinothkumar, **P.Marichamy**, “Public Transport Ticketing System using RFID” *National Conference on Recent Advancements in Communication, Electronics and Signal Processing,2018.*
2. K.Kamaraj, K.Kumaralingam, P.Murugesan, **P.Marichamy**, “Intelligent Surveillance Robot”, *National Conference on Recent Trends in Computing, Communication and Technology, 2018.*
3. M.Ganapathy, M.JebaSundar, P.MuthuKaruppasamy, **P.Marichamy**, “Stamped Avoidance System”, *National Conference on Recent Trends in Computing, Communication and Technology,2018.*
4. K.Pandeeswari and **P.Marichamy** “Energy-Efficient Resource Allocation in LTE-Based MIMO-OFDMA System”, *National Conference on Engineering Communication Trends(NCECT 16)*

FDP/Seminars/Conferences Organized

- Seminar on “Statistical and Soft Computing Techniques for Image Processing” with a financial support of DRDO in Nov.2012
- National Conference on ‘Emerging Communication Trends’ in March 2014
- Anna University Sponsored Faculty Development Training Programme for the Subject “Electronics Circuits-I” – June 2014.
- Organized MCTS Training Programme for the students
- Organized NSDC’s Skill Development Programme for the Students

Honors and Assignments

- ‘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

- 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

- 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.