

BIO-DATA



Name : Dr. V. Rajamani

Date of Birth : 31.07.1968

Address for correspondence

Principal

Vel Tech Multitech Dr. Rangarajan Dr. Sakunthala Engineering College

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Area of specialization : **Optical Communication System and VLSI**

Academic Qualifications

| Degree | Inst./Univ. | Year of passing | Percentage of Marks/Class |
|--|--|-----------------|---------------------------|
| B.E. Electronics and Communication | National Engg. College Madurai Kamaraj University, Madurai | 1990 | 64.89/I |
| M.E. Applied Electronics | Govt. College of Technology, Bharathiyar University. Coimbatore | 1995 | 61.8/II |
| Ph.D. Electronics Engg. | Institute of Technology, Banaras Hindu University, Varanasi, Uttar Pradesh | 1999 | - |

Other Achievements in Engineering Education

- Introduced new PG course in VLSI design and faculty coordinator for VLSI design and Applied Electronics programme in PSNA CET, Dindigul.
- Time table coordinator for the college for two yrs at PSNA CET, Dindigul.
- Introduced new PG course in MBA in Indra Ganesan College of Engg.
- Introduced new UG course in Mechanical Engg. Indra Ganesan college of Engg.
- Introduced new UG course in Civil Engg in Indra Ganesan college of Engg.
- Introduced new PG course in VLSI design and CSE in Indra Ganesan College of Engg.

Experience Details

Research **17 yrs and 9 months**
Teaching: **23 yrs and 0 months**

| Sl. No | Position held | Name of the employer | Period |
|--------|-----------------------------------|--|--------------------------|
| 1 | Lecturer - ECE | Md. Sathak Engg. College, Kilakarai | 10.01.1991 to 28.2.1996 |
| 2 | Senior Research Fellow | Department of Electronics Engg., Institute of Technology, Banaras Hindu University | 05.03.1996 to 30.09.1999 |
| 3 | Associate Professor - ECE | Md. Sathak Engg. College, Kilakarai | 09.10.1999 to 02.07.2000 |
| 4 | Associate Professor and Head CSE | P.S.N.A. College of Engg. and Tech., Dindigul | 05.07.2000 to 30.04.2002 |
| 5 | Professor ECE and Vice-Principal | P.R. Engg. College, Vallam, Thanjavur. | 01.05.2002 to 04.09.2002 |
| 6 | Professor and Head -IT | A.K.College of Engg., Krishnan Koil, Srivilliputhur | 09.09.2002 to 18.04.2003 |
| 7 | Professor –ECE and Vice-Principal | P.S.Y. Engg. College, Madurai | 05.05.2003 to 15.09.2003 |
| 8 | Professor -ECE | R.V.S. College of Engg. and Tech. | 16.09.2003 to 21.04.2004 |
| 9 | Professor ECE | P.S.N.A. College of Engg. and Tech., Dindigul | 22.04.2004 to 09.06.2008 |
| 10 | Principal | Indra Ganesan College of Engg., Tiruchirappalli | 10.06.2008 to 30.09.2013 |
| 11 | Principal | Veltech Multitech Dr. Rangarajan Dr. Sakunthala Engg,College, Avadi, Chennai – 600 062 | 01.10.2013 to till date |

- Other Services:**
- a. Principal investigator for the AICTE funded project under RPS scheme (2007-2008)
 - b. Coordinator for the AICTE sponsored staff development programme
 - c. AU, Chennai and Anna University of Tech, Tiruchirappalli recognized supervisor and doctoral committee member for more than ten research scholars
 - d. Syllabus sub-committee member for the ECE, AU, Chennai during 2004-2006.
 - e. Board of studies member, ECE Anna University of Technology, Coimbatore
 - f. Board of studies member, ECE, AC College of Engg. and Tech., Karaikudi
 - g. Presently syllabus sub-committee member for the ECE, Anna University, Chennai.

Research and Teaching Experience Details

Ph.D. thesis completed: 11 (Anna University, Chennai – 600 025)
 Ph.D. thesis completed: 01 (Mother Teresa University, Kodaikanal)
 Ph.D. thesis Submitted: 01 (Anna University, Chennai – 600 025)
 Ph.D. thesis Submitted: 02 (St. Peters University, Chennai – 600 062)
 M.E. thesis completed: 10
 UG Thesis completed: 10

Patent Details

S. Murugan and **V. Rajamani**, Broadband circularly polarized capacitive feed truncated microstrip antenna for GPRS applications, Application No.3912/CHE/2013 A, Date of filing of Application :02/09/2013 and Abstract Publication Date : 15/11/2013, International classification :H01Q

Publication details : 138 (List attached)

Details of Ph.D. thesis completed

| Sl. No. | Name of the student | Title of the thesis | University | Year of awarded |
|---------|------------------------------------|--|-----------------|-----------------|
| 1 | Dr. S. MURUGAVALLI (2003479730) | AUTOMATIC BRAIN TUMOR DETECTION FROM MAGNETIC RESONANCE IMAGE USING UNSUPERVISED SEGMENTATION TECHNIQUES | Anna University | 2009 |
| 2 | Dr. A. PUSHPARAGHAVAN | CERTAIN NOVEL INVESTIGATIONS ON LINK POWER ESTIMATION OF 10 Gbps | Anna University | 2009 |

| | | | | |
|----|--------------------------------------|--|--|--------|
| | (2004479712) | PASSIVE OPTICAL NETWORKS WITH PERFORMANCE ANALYSIS | | |
| 3 | Dr. C. ARUN (2005479101) | FPGA IMPLEMENTATION OF AN EFFICIENT NOVEL VITERBI DECODER ARCHITECTURE FOR WIRELESS APPLICATION | Anna University | 2009 |
| 4 | Dr. S. MANIKANDAN (2005779103) | SOME INVESTIGATIONS ON FEATURE EXTRACTION AND IMAGE RETRIEVAL SYSTEM FOR ULTRA SOUND KIDNEY IMAGE DATABASE | Anna University | 2009 |
| 5 | Dr. V. PARTHASARATHY (2006479104) | THEORETICAL ANALYSIS OF BULK FLOW TCP AND FPGA IMPLEMENTATION OF OPTICAL ROUTER CONTROLLER | Anna University | 2010 |
| 6 | Dr.M. SUBADRA (2003479737) | HARDWARE RECONFIGURABLE NEURAL NETWORK BASED ELECTRONIC NOSE SYSTEM FOR EARLY DIAGNOSIS OF STERILE BODY FLUID INFECTIONS | Anna University | 2011 |
| 7 | Dr. A. KAVITHA (2007479171) | PERFORMANCE ANALYSIS AND IMPROVEMENT OF SOME QUALITY OF SERVICE PARAMETERS IN OPTICAL PACKET SWITCHING NETWORKS | Anna University | 2011 |
| 8 | Dr. J.ARUNADEVI | STUDY OF SPATIAL DATA MINING TECHNIQUES USING EVOLUTIONARY COMPUTING | Mother Teresa Women's University, Kodaikanal | 2013 |
| 9 | Dr.VE. JAYANTHI (20074012010) | DESIGN AND IMPLEMENTATION OF VLSI ARCHITECTURE ALGORITHMS FOR DIGITAL IMAGE WATERMARKING | Anna University | 2013 |
| 10 | Dr. M. Arunachalam (20074022003) | RESOURCE OPTIMIZATION THROUGH FAULT MANAGEMENT IN OPTICAL WDM NETWORKS | Anna University | 2013 |
| 11 | Dr. S. SHIYAMALA, (20074012027) | INVESTIGATIONS ON VLSI IMPLEMENTATION OF MAP DECODER ARCHITECTURE FOR LOW POWER APPLICATIONS | Anna University | 2013 |
| 12 | MRS. KAVITHA T (2007479170) | PERFORMANCE ANALYSIS OF MULTIPATH ROUTING AND WAVELENGTH ALLOCATION WITH DYNAMIC TRAFFIC GROOMING FOR OPTICAL WDM NETWORKS | Anna University | 2014 |
| 13 | Mrs. R.USHADEVI | SERVICE RANKING, SELECTION AND | St. Peter's | Thesis |

| | | | | |
|----|--|---|------------------------|--------------------|
| | (SP10CA DA72) | COMPOSITION FOR SECURE COMPUTING IN CLOUD ENVIRONMENT | University | Submitted |
| 14 | MRS. K. SASIKALA (SP10CA DA71) | MULTI PATH ENERGY EFFICIENT NEURO FUZZY BASED DYNAMIC CONNECTED DOMINATING SET IN WIRELESS MESH NETWORK | St. Peter's University | Thesis Submitted |
| 15 | MR. S. MURUGAN (20084012010) | DESIGN AND IMPLEMENTATION OF WIDEBAND AND DUAL FREQUENCY MICROSTRIP ANTENNAS FOR RF APPLICATIONS | Anna University | Thesis Submitted |
| 16 | MR. M. KABEER (2007479182) | SOME INVESTIGATIONS ON NUMERICAL SIMULATION OF PHOTODETECTORS FOR FUTURE GENERATION OPTICAL COMMUNICATION SYSTEM | Anna University | Synopsis Submitted |
| 17 | Ms. KARTHIKEYINI C (Ph.D. Reg. No. 20084012016) | SOME INVESTIGATIONS ON FINGERPRINT IMAGES OF THREE GENERATION TO IDENTIFY HEREDITARY RELATION | Anna University | Synopsis Submitted |
| 18 | Mr. M. BALASUBRAMONIAN (20083062005) | DESIGN AND IMPLEMENTATIONS OF SHEPWM IN SINGLE PHASE INVERTER AND A.C. CHOPPER USING GENERALIZED HOPFIELD NEURAL NETWORK | Anna University | Synopsis Submitted |
| 19 | Ms. K. GOWRI (20094012001) | SOME INVESTIGATIONS ON NUMERICAL MODELING OF SOI MOSFET BASED DEVICES FOR DARK AND ILLUMINATED CONDITIONS | Anna University | Synopsis Submitted |
| 20 | Mr. T. PEER MEERA LABBAI (Reg. No. 75308002) | VARIABLE BIT RATE ON DEMAND ROUTING TECHNIQUE FOR SECURED MANETS | SRM University | Synopsis Submitted |

PERSONAL DETAILS

Native District: TIRUNELVELI,

Birth Place: AYAN AZHAGANERI, THACHANALLUR, TIRUNELVELI

Name of the Wife: Mrs. Rathiammal, House wife

Number of Children: Two

1. Mr. R. Vaigunth Krishnan, IIIrd M.B.B.S., Tagore Medical College, Chennai
2. Selvan R. Varun Prabhu, VIII Std, Mahatma CBSE, Madurai

Details of List of Publication: Dr. V. Rajamani

1. Karthikeyini C., **Rajamani V.**, 'Study on Fingerprint Images using Delaunay Patterns to Identify Hereditary Relations among Family Members of Three Generations'(Accepted for publication in LNAI, Springer)
2. K. Dhanalakshmi and **V. Rajamani**, An Improved Diagnostic System for CT-SCAN Brain Images Using Combined Artificial Neural Networks Approach, International medical journal, (accepted for publication)
3. K.Gowri, and **V. Rajamani** OPTICAL EFFECTS ON THE CHARACTERISTICS OF A NANOSCALE SOI MOSFET WITH UNIFORM DOPING PROFILE, OPTIK, [125](#), pp.3195-3200, 2014.
4. M.Balusubramonian and **V.Rajamani** "Design and Real Time Implementation of SHE PWM in Single Phase Inverter using Generalized Hopfield Neural Network", IEEE Transactions on Industrial Electronics (accepted for publication) : online version published DOI 10.1109/TIE.2014.2304919.
5. B. SENTHILKUMAR and **V. Rajamani**, "VLSI IMPLEMENTATION OF KEY DEPENDENT SUBSTITUTION BOX USING ERROR CONTROL ALGORITHM FOR SUBSTITUTION-PERMUTATION SUPPORTED CRYPTOGRAPHY" Journal of Theoretical and Applied Information Technology (accepted for Publication)
6. R.Rajamohamed and **V. Rajamani**, HASHED SYMMETRIC KEY ENCRYPTION BASED VBSR, Journal of Theoretical and Applied Information Technology, 62, pp.161-165, 2014.
7. Muthumayil, S. Manikandan and **V.Rajamani** Detecting and Preventing Malicious Nodes ON and OFF the Route in WSN, *Pensee Journal*, Vol 75, No. 12;Dec 2013
8. K.Gowri, V.Parthasarathy and **V. Rajamani**, Three Dimensional Numerical Modeling and Simulation of a nano SOI MOSFET Photodetector", **JOAM** (accepted for publication).
9. E . Dhiravidachelvi and **V. Rajamani**, A Review on the Abnormalities of Diabetic Retinal Images, International Journal of Engineering Research & Technology (IJERT), 3(4), 79-85, 2014
10. M. Kabeer, **V. Rajamani** and S. Bose, Self-consistent 2-D numerical modeling and simulation of a uniformly doped nanoscale Double-Gate SOI n-MOSFET under illuminated condition for photodetection application, **JOAM** (accepted for publication) published in the 3-4 issue of 2014.
11. S.Murugan, E.Sathish Kumar and **V.Rajamani**, "Design and analysis of double U slot loaded dual frequency microstrip antenna", Progress in Electromagnetic Research C, Vol.45, pp.101-112, October 2013.

12. S.Shiyamala and **V.Rajamani**, "A Modified MAP decoder architecture for low power consumption," IET Signal Processing (accepted for publication).
13. G.Sasi and **Rajamani.V.**, Performance analysis of a novel method to reduce crosstalk in AMBA-AHB Based System on Chip, Advancing Microelectronics (Accepted for publication)
14. T.Kavitha and **V.Rajamani**, FPGA implementation of Arbiters Algorithm for Network-On-Chip, Archives Des Sciences (accepted for publication).
15. Shiyamala.S and Rajamani.V, "A high performance modified MAP decoder using Zig-Zag algorithm", Communications - ACTA Press Journal. (Accepted for publication - DOI: 10.2316/Journal.214.2013.2.214-1048)
16. C Callins Christiyana and Rajamani, Second order Statistical Texture Features from a New CSLBPGLCM for Ultrasound Kidney Images Retrieval, Applied Medical Informatics 33 (4), 32-39, 2013
17. M. Malathi and V.Rajamani, A virtual Cloud Model for Education and Knowledge Enhancement, International Journal of Scientific & Engineering Research, Volume 4, Issue 8, August 2013.
18. D. Udaya Suriya Rajkumar and Rajamani Vayanaperumal. A leader based monitoring approach for sinkhole attack in wireless sensor network. *Journal of Computer Science* Volume 9, Issue 9, pp 1106-1116, 2013
19. K. Dhanalakshmi and **V. Rajamani**, efficient decision support system for diagnosing brain tumor images, International Journal of Fuzzy System, 15 (2), 254-261, 2013.
20. Kavitha, A. and **Rajamani, V.**, Design of Reservation Bit Algorithm for Optical Packet Switching and Its Impact on Reliability in NSFNET, Advanced Science Letters, Volume 19, Number 11, pp. 3250-3252(3), 2013.
21. Karthikeyini C, **Rajamani V** and Bommanna Raja K, A New Approach for Identifying Hereditary Relation Using Primary Fingerprint Patterns, IET Image Processing, 7, Issue:5, 423-431, July 2013
22. K. Dhanalakshmi and **V. Rajamani**, An intelligent mining system for diagnosing medical images using combined texture-histogram features, International Journal of Imaging Systems and Technology, 23(2), pp.194-203, 2013.
23. T.Kavitha and **V.Rajamani**, A Modified Efficient Traffic Scheduling Algorithm for Routing in Optical WDM Mesh Networks, Journal of Optical Communications, Volume 34, Issue 3, Pages 193–200, 2013.
24. R. Ushadevi and **V.Rajamani**, A modified trusted cloud computing architecture based on third party auditor (TPA) private key mechanism, *International Journal of Computer Applications*, Volume 58– No.22, pp.1-9, November 2012.
25. K. Sasikala and **V.Rajamani**, A Modified Fuzzy Logic Routing for Wireless Mesh Network, *International Journal of Computer Applications*, Volume 60– No.2, pp.28-34, December 2012.
26. T.Kavitha and **V.Rajamani**, "Efficient multipath routing and wavelength allocation using traffic grooming in optical WDM mesh networks," *Journal of Computer Science*, Vol. 8, pp. 1839-1848, 2012

27. S.Murugan and V.Rajamani, "Design, simulation and experimental analysis of Wideband Circularly polarized capacitive fed Microstrip antenna", Progress in Electromagnetic Research C Vol.30, pp.173-188, June 2012.
28. J.Arunadevi and **V.Rajamani**, "Spatial Decision Making using Multi label Semi supervised Evolutionary Associative Classification ", IMS Manthan (The Journal of Innovations), (CS & Tech), David Bracewell, et al. (Eds): AIAA 2011,CS & IT 03, pp. 197–210 , 2011.
29. J.Arunadevi and **V.Rajamani**, "A Two step optimized spatial Association rule Mining Algorithm by hybrid evolutionary algorithm and cluster segmentation", GJCST, Vol-11, No. 12, pp- 01-07, July 2011.
30. J.Arunadevi and **V.Rajamani**, "An Evolutionary Multi Label Classification using Associative Rule Mining for Spatial Preferences" IJCA special edition on "ARTIFICIAL INTELLIGENCE TECHNIQUES- Novel Approaches & Practical Applications" , Vol- 11, No.3, pp- 1-10, June 2011
31. J.Arunadevi and **V.Rajamani**, "A Frame Work For Preferential Facility Location Prediction By Spatial Data Mining Techniques Using Evolutionary Optimization", International Journal of Computing Technology, Vol-1, No. 4, pp-138-142, March 2011.
32. J.Arunadevi and **V.Rajamani** , "Prediction of Customer Behavior using Evolutionary Associative Clustering", IMS Manthan (The Journal of Innovations), Vol-5 No. 2 (CS & Tech), pp-13-20, Dec 2010.
33. J.Arunadevi and **V.Rajamani** , "Optimization of Spatial Association Rule Mining using Hybrid Evolutionary algorithm", IJCA Vol-1, No.19, pp-86–89, February 2010.
34. C.Callins Christiyana, **V.Rajamani** and A.Usha devi, Ultra Sound Kidney Image Retrieval using Time Efficient One Dimensional GLCM Texture Feature, **ACCTHPCA special issue** International Journal of Computer Applications, 12-17, July 2012
35. C.Callins Christiyana and **V.Rajamani**, Performance analysis of grey level co-occurrence probabilities for ultra sound kidney images retrieval, European Journal of Scientific research, 88, pp.451-459, 2012.
36. T. Peer Meera Labbai and **V. Rajamani**, A variable bit-rate on demand routing protocol for mobile adhoc networks, International Journal of Ad hoc, Sensor & Ubiquitous Computing (IJASUC) Vol.3, No.4, pp. 31-40, August 2012.
37. Arunachalam, M. and **Rajamani, V.** "Multilevel feedback queue wavelength assignment algorithm in optical WDM networks", ICTACT Journal on Communication technology, Vol.2, No.4, pp.433-437, 2011.
38. Arunachalam, M., Alamelu divya , N. and **Rajamani, V.** "Reducing Network block rate using wavelength heuristics in optical WDM networks", International Journal on Communications and Engineering, Vol.1, No.4, pp.29-33, 2012.
39. Arunachalam, M. and **Rajamani, V.** "Reducing flooding overhead through lazy flooding approach in optical WDM Networks", International Journal of Intelligent Electronic Systems (Accepted for publication).

40. S. Murugan and **V. Rajamani**, Design, simulation and experimental analysis of wideband circularly polarized capacitive fed microstrip antenna, *Progress In Electromagnetics Research C*, Vol. 30, 173-188, 2012
41. VE. Jayanthi and **V. Rajamani** , “High performance VLSI architecture for block based visible image watermarking” , *International Journal of Electronics*, pp.1191-1206, **99, 9, 2012**
42. Arunachalam M. and **Rajamani V**, An efficient flooding algorithm for improving network performance in fault tolerant optical WDM Networks, *International Journal of Computational Science and Engineering (Accepted for Publication)*
43. Arunachalam M. and **Rajamani V**, “Distributed fault detection and localization algorithm using artificial neural network in optical WDM Networks”, *European Journal of Scientific research*, Vol.56 No. 2, pp. 194-203, 2011.
44. Parthasarathy V., Anandakumar P. and **Rajamani V**. ‘Design, simulation and FPGA implementation of a Novel Router for Bulk Flow TCP in Optical IP Networks’ , *IAENG International Journal of Computer Science*, Vol. 38, No.4, pp. 343-349, November 2011.
45. VE Jayanthi , **V. Rajamani** and P. Karthikayen, “Performance analysis for geometrical attack on digital image watermarking”, *International Journal of Electronics*, 98 (11). pp. 1565-1580, 2011.
46. Kavitha A, **Rajamani V** and Anandakumar P , “Performance Analysis of Delay in Optical Packet Switching Using Various Traffic Patterns”, *Current Science* , **101, pp.1462-1467, 2011.**
47. S. Manikandan and **V. Rajamani**, “An efficient ultra sound kidney image retrieval using neural network approach”, *Elixir Adv. Engg. Info.* 38 (2011) 4127-4130
48. KavithaA, **Rajamani V** and Anandakumar P , “Performance Analysis of Delay in Optical Packet Switching Using Various Traffic Patterns”, *International Journal of Computer Science and Information Security*, Vol. 8, No. 6, pp.238-244, September 2010.
49. Jayanthi.V.E and **Rajamani.V**, “Robust Digital Watermarking for Geometric Distortion in Biomedical Images”, *International Engineering and Technology -Journal of Information System*, Vol.4, No.2, 2010, PP.64-71.
50. V. Parthasarathy, P. Anandkumar, **V. Rajamani** , “A numerical model of a Bulk flow TCP and its routing performance analysis for the optical IP networks”, *International Journal of Computer Applications*, 11, pp.5-11, 2010.
51. S.Shiyamala and **V.Rajamani**, “A Novel Area efficient Folded Modified convolutional interleaving architecture for MAP decoder”, *International Journal of Computer Applications*, Vol. 9, pp.18-22, 2010.
52. A. Pushparaghavan, **V. Rajamani** and N. Malmurugan, “A Novel Scheme of Estimating Link Power Budget using DBA for a 10 Gbit/s TDM-PON Architecture”, *J. Opt. Commun.* 31 (2010), pp.234 – 244
53. Arun C. and **Rajamani V.**, “A Low power and High Speed Viterbi Decoder based on Deep Pipelined, Clock Blocking and Hazards Filtering”, *International Journal of Communications, Network and System Sciences*, 2009.

54. Kavitha A, **Rajamani V** and Anandakumar P, "Performance Analysis of Slotted Optical Packet Switching in Non-Uniform Traffic Pattern", INFOCOMP, J. Computer Science, v8(4) p.71-78, Dec 2009.
55. Kavitha A, **Rajamani V** and Anandakumar P, "Evaluation of BER in Optical Packet Switching Scheme in Non-Uniform Traffic Pattern", International journal of Computer science and Information security, Vol.8, pp.238-244, 2010.
56. S.Manikandan, **V. Rajamani**, "Automated Feature Extraction and Feature Selection from Ultra Sound Kidney Image Database", International Journal of Computer Engineering, Vol.1 No.1 (2009), pp.51-53.
57. V. Parthasarathy, P. Anandkumar, **V. Rajamani**, Performance Analysis for Contention Resolution in Bulk Flow TCP Routing to optical IP Networks through Simulation, INFOCOM Journal Computer Science, VOL. 8, pp.95-102, 2009.
58. C Arun and **V Rajamani**, "A Low power and High Speed Viterbi Decoder based on Deep Pipelined, Clock Blocking and Hazards Filtering", International Journal of Circuits, Systems, and Computers, **6**, **575–582**, **2009**.
59. S. Murugavalli and **V Rajamani**, Real time MRI brain tumor segmentation based on hierarchial self organizing map with fuzzy technique" International Journal of soft computing Applications, (accepted for Publication)
60. C Arun and **V Rajamani**, "Design and VLSI architecture of non-polynomial based low probability of error (Pb) Viterbi decoder", Journal of Scientific & Industrial Research, Vol. 68, February 2009, pp.97-106.
61. K. Balasubadra, **V. Rajamani** and K. Sankaranarayanan, Design and analysis of a 20 Gbps Metal Insulator Semiconductor Field effect transistor Photoreceiver for the Optoelectronic Integrated Circuit receiver applications, Journal of Nanoelectronics and Optoelectronics, 3, 307–315, 2008
62. K. Balasubadra, **V. Rajamani** and K. Sankaranarayanan, 3D Numerical modeling and extraction of noise parameters of uniformly doped MESFET photodetector, Journal of Computational and Theoretical Nanoscience, 6, 561–570, 2009.
63. K. Balasubadra, **V. Rajamani** and K. Sankaranarayanan, "Two Dimensional Numerical Modeling and Simulation of a Uniformly doped GaAs MESFET Photodetector" J of Optical communication 29, pp.194-201, 2008..
64. K. Balasubadra, T.Thangam, **V. Rajamani**, K. Sankaranarayanan, Three dimensional numerical modeling and simulation of a uniformly doped GaAs MESFET photodetector, Jpournal of Optoelectronics and Advanced Materials, 10, pp.2494-2501, 2008.
65. K. Balasubadra, **V. Rajamani**, K. Sankaranarayanan, 3D numerical noise modeling and simulation of a MISFET photodetector in the nano meter region, Optoelectronics and Advanced Materials – Rapid Communications, Vol. 2, No. 10, pp.605-616, October 2008.
66. S.Manikandan and V.Rajamani, "A Mathematical approach for Feature Selection and Image Retrieval of Ultra Sound Kidney Image Databases" EJSR, European Journal of Scientific Research, Vol. 24, pp 163-171, 2008

67. V. Parthasarathy and **V. Rajamani**, "Performance Analysis of Bulk Flow Routing for TCP in Optical Network "J of Optical Communication, 29, 98-106, 2008.
68. A. Kavitha and **V.Rajamani**, Performance Analysis of Slotted Optical Switching Scheme using Non-uniform Traffic Pattern," J of Optical Communication, 29, 107-111, 2008.
69. C.Arun and **V.Rajamani**, "Minimized memory architecture for low latency Viterbi decoder using zig-zag algorithm", International Journal on Wireless and Optical Communications, World Scientific Publishing, Vol. 4, No. 3, pp.313-323, 2007.
70. M. Kabeer and **V. Rajamani**, 2D Numerical Modeling and Simulation of a non-uniform doped electric field dependent MESFET Photodetector, Optoelectronics and Advanced Materials-Rapid Communications, Vol. 1, 583-587, 2007.
71. S. Murugavalli and **V. Rajamani**, An improved implementation of brain tumor detection using segmentation based on neuro fuzzy technique, Journal of Computer Science (Science Publication) 11, 841-846, 2007.
72. A. Pushparaghavan, **V. Rajamani**, A. Shanmugam and N. Malmurugan, A novel method on link power estimation of modified Ethernet PON (MEPON) architecture using ADM as remote node for dynamic bandwidth allocation scheme, International J. of Sytemic, Cybernetics and Informatics (IJSCI), 3, pp.52-60, 2007.
73. S. Murugavalli and **V. Rajamani**, A high speed parallel fuzzy c-means algorithm for brain tumor segmentation, ICGST International Journal on Bioinformatics and Medical Engineering (BIME), vol.06, pp.29-34, 2006.
74. A. Pushparaghavan, **V. Rajamani**, A. Shanmugam and N. Malmurugan, Optical pulse power analysis usinf Fabry Perot tunable filter for 10 Gbps WDM PON architecture, International J. of Soft Computing, Vol 3, pp.50-57, 2008.
75. M. Kabeer, K. Gowri and **V. Rajamani**, Three dimensional modeling and simulation of a nano MISFET photodetector, Journal of Optoelectronics and Advanced Materials, 9, pp.2879-2885, 2007.
76. A. Pushparaghavan, **V.Rajamani**, N. Malmurugan, A novel method of estimating link power budget using dynamic bandwidth allocation scheme for a 10 Gpbs GPON architecture, J. of Optical Comm., 28, pp.148, 154, 2007.
77. K. Gowri, P. Rajesh and **V. Rajamani**, Numerical simulation and modeling of short channel three dimensional nano MISFET for the application in ULSI circuits, Physica E, Vol.36, 52-59, 2007.
78. P. Chakrabarti, **V. Rajamani**, D. Mishra and S. Nayak, "Sensitivity analysis of photoreceivers based on single MESFET front-end," J. Optical Communication, **25**, pp854-860, 2004.
79. **V. Rajamani** and P.Chakrabarti, "A Proposed Ultra Low-Noise Optical Receiver for 1.55 mm Applications," Optical and Quantum Electronics, **35**, pp195-209, 2003.
80. **V. Rajamani**, M. Madheswaran and P. Chakrabarti, "Noise analysis of InP/InGaAs Superlattice Avalanche Photodiode," IETE Journal of Research, **46**, pp215-220, 2000.
81. P.Chakrabarti, M. Madheswaran, A. Gupta, N.A. Khan and **V. Rajamani**, "Numerical simulation for estimating the optically controlled characteristics of an ion-implanted Si-MESFET," IETE Journal of Research,**46**, pp205-214, 2000.

82. M. Madheswaran, **V. Rajamani** and P. Chakrabarti, "Quasi-Two-Dimensional model of an ion-implanted GaAs MESFET photodetector," *Microwave and Optical Technology Letters*, **26**, pp247-254, 2000.
83. P.Chakrabarti and **V. Rajamani**, "A proposed OEIC receiver using MESFET photodetector," *IEEE J. Lightwave Tech.*,**17**, pp659-668, 1999.
84. **V. Rajamani** and P.Chakrabarti, "Noise performance of an InP/InGaAs superlattice avalanche photodiode," *Optical and Quantum Electronics*, **31**, pp69-76, 1999.
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