

**SSN COLLEGE OF ENGINEERING, KALAVAKKAM-603110**

**DEPARTMENT of ELECTRONICS and COMMUNICATION**

**ENGINEERING**

**FACULTY PUBLICATIO\N**

**June 2011-May 2012**

## **International Journals**

1. **Edna Elizabeth. N,** Radha. S, Priyadarshini. S, Jayasree. S and Naga Swathi. K, "SRT-Secure Routing using Trust Levels in MANETs", European Journal of Scientific Research, Vol.75 No.3, pp.409-422. April 2012. (UG)
2. **Ms.K.Muthumeenakshi** and Dr.S.Radha, "Cooperative Spectrum Sensing in Cognitive Radio: Detector Designs for Imperfect Reporting Channels", European journal of Scientific Research, Vol.75, No.2, pp. 303-312, April 2012
3. **R.Amutha**, "Simulation of Inter processor communication Architecture in MPSoc", European journal of scientific Research.Vol.72, No.1, pp.74-83, 2012.
4. **V. Vaithianathan**, Dr.J.Raja, Dr.R.Srinivasan, "2 - 12 GHz Low noise amplifier design for Ultra Wide Band applications", American Journal of Applied Sciences 9 (8), pp.1158 - 1165, 2012.
5. S. Geetha, **R .Jayaparvathy** and S. Anand, " Dynamic Weight based Fair Resource Allocation In IEEE 802.16 Broadband Wireless Access Networks", International Journal of Computer Applications ,Vol.45, No.1, May 2012,pp. 8-13.
6. **Joseph Gladwin** and S.Salivahanan, "Maximally Robust 2-D Channel Estimation for OFDM systems with Finite number of Pilots", European journal of scientific Research.Vol.75, No.1, pp.84-91, April 2012.
7. Saravanan Swapna, **M.Anbuselvi** and S.Salivahanan, "Analysis of Min Sum Iterative Decoder using Buffer Insertion" International Journal of Computer Applications,vol.41,no.13, pp 13-17,March 2012.
8. **V.Vaithianathan**, Dr.J.Raja, Dr.R.Srinivasan, M.Chandra Praveen, "Active Inductor Based Low Noise Amplifier for Ultra Wide Band Receiver",

International Journal of Computer Applications, vol. 41, no.15, pp: 53-60, March 2012

9. **K.J.Jegadish kumar** ,K.Chenna Kesava Reddy , S. Salivahanan , "ASIC Implementation of Scalable Encryption Algorithm using Efficient Modular Adders", European Journal of Scientific Research, vol.73, no.4, pp. 539-546, 2012
10. **B.S.Sreeja** , **S.Radha**, "Design and Modeling of a Wide Tuning Range, High Q, Low Supply Voltage MEMS Based Tunable Capacitor for Wireless Communication Applications", Advanced Materials Research, vols. 403-408, pp 4617-4624, 2012
11. **V. Vaithianathan**, Dr.J.Raja, Dr.R.Srinivasan, "A 1.7 - 2.5 GHZ Active Inductor Based Low Power Low Noise Amplifier for Multi Standard Applications", International Journal of Computer Applications, vol. 39, no.5, pp: 16-24, February 2012.
12. **V. Vaithianathan**, Dr.J.Raja, Dr.R.Srinivasan ., "A 90nm CMOS Differential Ultra Wide Band Low Noise Amplifier", International Journal of VLSI & Signal Processing Applications, vol. 2, no 1, pp 6-12, February 2012
13. **V. Vaithianathan**, Dr.J.Raja, Dr.R.Srinivasan, P. Aishwarya, B. Anupreethi, S. Divya, "A 3 - 14 GHz Low Noise Amplifier for Ultra Wide Band Applications", International Journal of VLSI Design & Communication Systems, vol. 3, no 1, pp 137-151, February 2012. .(UG)
14. **V. Vaithianathan**, Dr.J.Raja, Dr.R.Srinivasan, A. Naveen Bharadwaj, "A Low Power Fully Digital Transmitter for Ultra Wide Band Impulse Radio", European Journal of Scientific Research, Vol.74 No.2, pp. 259-271, 2012. .(UG) (UG file-Mr prabagarane)
15. **V. Vaithianathan**, Dr.J.Raja, Dr.R.Srinivasan ., "A 90nm CMOS Low Noise Amplifier with shunt-series peaking for ultra wide band

communication systems", International Journal of Electrical Engineering, ISSN 0974-2158 vol 5, no 4, pp. 489-500,2012.

16. **Anbuselvi M**, Salivahanan S, "Area Efficient and Low Power Architecture of Min-Sum LPDC Codes Using Wave-Pipelining", European Journal of Scientific Research, vol.69 no3 , pp.350-359, 2012.
17. **Prabagarane Nagaradjane**, Lakshmi Krishnan, Arvind Sai Sarathi Vasan, "Performance analysis of multicell multiuser MIMO MC DS/CDMA system with MMSE user-ordered SIC technique, Elsevier Journal on computer and electrical engineering, Dec 2011.(UG)
18. **B.S. Sreeja** and Radha.S., " Optimized 2.4 GHz voltage controlled Oscillator with a High Q MWCNT Network-based Pulse shaped Inductor", Elsevier-Microelectronics Journal, 2012, Vol.43, Issue 1, pp1-12
19. S.Ganesh , **R.Amutha**, "Network security in wireless sensor networks using Triple umpiring system" , European journal of scientific research Vol.64, No. 1 Nov 2011, pp. 128-145.
20. **Jawahar A**, Radha S and Sharath Kumar, "Capacity-Preserved, Energy-Enhanced Hybrid Topology Management Scheme in Wireless Sensor Networks," International Journal of Distributed Sensor Networks, Volume 2012, doi:10.1155/2012/280932.pp 1-12.
21. **Kishore, R.**, Radha, S. and Ramasamy, P. "A Secure Key Predistribution Scheme for WSN using Elliptic Curve Cryptography", Electronics and Telecommunications Research Institute – ETRI Journal, Vol. 33, No.5, October 2011.(UG)
22. **S.Sakthivel Murugan**, V.Natarajan, R.Rajesh Kumar, "Noise Model Analysis and Estimation of Effect due to Wind Driven Ambient Noise in Shallow Water", International Journal of Oceanography, volume 2011, pp1-4.
23. D. Shanthi , **R.Amutha**, " Design Approach to Implementation of Arbitration Algorithm in shared bus Architectures" Journal of Computer

Engineering and Intelligent Systems Vol 2, No. 4, pp 185-196, October 2011.

24. **P. Vijayalakshmi**, T. Nagarajan and Preethi Mahadevan - "Improving speech intelligibility in cochlear implants using acoustic models" - WSEAS Transactions on Signal Processing, Vol. 7, Issue 4, Oct. 2011, pp. 103 - 116.(UG)
25. **R.Amutha**, "Performance analysis of 64-ary triangular quadrature amplitude modulation", Journal of Discrete Mathematical Sciences and Cryptography. Vol.14, Aug 2011, No.4, pp 317-332
26. **Kuttathatti Srinivasan Vishvaksenan** , R.Seshasayanan , "Performance of MMSE Receiver based MIMO-IDMA System with Multi-user Detection over Frequency Selective Wireless Communication Channel", Journal of computer science, 7 (7), July 2011, pp 1105-1112
27. **M. Anbuselvi**, S.Salivahanan, P. Saravanan, "Analysis of Wave-pipelined architecture of ARA-LDPC codes", International journal of computer applications, Vol. 24 No:3, June 2011, pp 43-47.
28. **Edna Elizabeth.Nallathambi**, Radha Sankararajan, Vaithiyanathan Sundaram and Gracelin Sheeba, " A Secure Routing Protocol to Eliminate Integrity, Authentication and Sleep Deprivation Based Threats in Mobile Ad hoc Network", Journal of Computer Science 7(6): Jun 2011, pp 924-936.(UG)
29. Donisha L Greet , **S Hanis**, " An improved detection scheme for Radar system", International Journal of Computer Applications 24(5):13–17, June 2011.
30. **Sreeja B S, Radha S**, "Fabrication and Characterization of High-Q Nano-Inductor for Power Electronics" Bonfring International Journal of Power Systems and Integrated Circuits, Vol. 1, Special Issue, December 2011, pp 43-47.

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**FACULTY PUBLICATION**  
**June 2011-May 2012**

### **International Conference**

1. R. Maheswar and **R. Jayaparvathy**, "Performance Analysis of Fault Tolerant Node in WSN", Feb 21-22, CNC 2012, Chennai.
2. S.Shoba, Y.AsmathVicty Phamila and **R.Amutha** "Low Memory Wavelet Image Compression for Multimedia Sensor Networks," in the International conference on Advances in Engineering and Technology (ICAET), March 28 & 29, 2012.
3. V.Kumaravel, Y.AsmathVicty Phamila and **R.Amutha** "LBT Based Image Compression for Wireless Sensor Network," in the International conference on Advances in Engineering and Technology (ICAET), March 28 & 29, 2012.
4. M.R.Sharmila and **R.Amutha** "Analysis and Implementation of Adaptive ACE for PAPR reduction in OFDM," in the International conference on Advances in Engineering and Technology (ICAET), March 28 & 29, 2012.
5. L.Vinu Prabha and **R.Amutha** "Performance Analysis of MIMO detection Techniques," in the International Conference on Recent Trends in Computational Methods, Communication and Controls (ICON3C'12), Apr 4, 2012.
6. S.Maraimalainayagan, **Dr.Premanand Chandramani**, "Modelling and Design of a 14-Band 3.1 to 10.6 GHz Frequency Synthesizer Architecture for MB-OFDM Communication", International Conference on Computing and Control Engineering (ICCCE-on April 12 & 13, 2012) Organised by

7. P.Venkateshwari and **M.Anbuselvi**, “ Decoding performance of binary and non-binary LDPC codes for IEEE 802.11n standard” Proc. on 2nd International conference on recent trends in Information technology,ICRTIT’12,pp 292-296, 20th April 2012.
8. Saravanan Swapna, **M. Anbuselvi** and S.Salivahanan, “Design and analysis of iterative decoder using wave pipelining”, ICCCE, 12th April 2012.
9. M. Chandra Praveen, **V. Vaithianathan**, Dr. J. Raja, Dr. R. Srinivasan, "Active Inductor Based Differential Low Noise Amplifier for Ultra Wide Band Receiver", Proceedings of IEEE 4th International Conference on Electronics Computer Technology (ICECT), April 06 - 08, 2012, pp: 275 – 280
- 10.M. Chandra Praveen, **V. Vaithianathan**, Dr. J. Raja, Dr. R. Srinivasan, "Active Inductor Based Differential Low Noise Amplifier for Ultra Wide Band Applications", Proceedings of IEEE 2nd International Conference on Recent Trends in Information Technology, Madras Institute of Technology, April 19 - 21, 2012, pp: 401 – 406
- 11.Suchitra .R and **Vinoth Kumar .C**, “Encrypted Data Hiding in Encrypted Images”, International Conference on Science and Innovative Engineering, 31<sup>st</sup> March 2012.
- 12.Karunakaran A, **Ramakrishnan M**, “Improved forward error correction technique for mobile video broadcast”, Proc of the International conference on communication and signal processing-2012, held at kanchipuram, India, pp.102-105
- 13.T. Mohanraj and **E. Janardhanan**, “Smart Electricity Monitoring Meter With Secure Transmission To EB By GSM/GPRS”, IET12, Anna University of Technology, April 2012
- 14.Sumithra P, **Jagadish Kumar K.J**, “1D Cellular Automata Algorithm Based Ultra Wide Band Antenna Design”, International Conference in Magna on Emerging Engineering trends.

15. M. Madhu and **R. Amutha**, “An Improved method for face authentication and verification system”, IEEE- International Conference on Advances In Engineering, Science And Management (ICAESM): EGS Pillay Engineering College, Nagapattinam, March 30-31, 2012, pp.410-417.
16. M. Moorthy and **R. Amutha**, “A Near Lossless Compression Method for Medical Images”, was presented in the IEEE-International Conference on Advances In Engineering, Science And Management (ICAESM): EGS Pillay Engineering College, Nagapattinam, March 30-31, 2012, pp.39-44.
17. S. Sathish kumar and **R. Amutha**, “Edge Detection of Angiogram Images Using the Classical Image Processing Techniques”, IEEE-International Conference on Advances In Engineering, Science And Management (ICAESM): EGS Pillay Engineering College, Nagapattinam March 30-31, 2012, pp.55-64.
18. M. Saranya, **P. Vijayalakshmi**, and Nagarajan Thangavelu, “Improving the Intelligibility of Dysarthric Speech by Modifying System Parameters, Retaining Speaker’s Identity”, Proc. of the Second International Conference on Recent Trends in Information Technology: MIT, Anna University and IEEE Madras Section, Chennai April 19 – 21 , 2012, pp. 60 – 65.
19. M. Gandhimadhy and **P. Vijayalakshmi**, “Linear Prediction Residual Error Based Assessment of Dysarthric Speech”, Proc. of International Conference on Computing and Control Engineering: Dr. M.G.R University, Chennai, April 12 – 13, 2012, ISBN-978-1-4675-2248-9.
20. Anushiya Rachel Gladston, **P. Vijayalakshmi** and Nagarajan Thangavelu, “Improving Speech Intelligibility in Cochlear Implants Using Vocoder-Centric Acoustic Models”, Proc. of the Second International Conference on Recent Trends in Information Technology: MIT, Anna University & IEEE Madras Section, MIT Chennai, April 19 – 21, 2012, pp. 66 – 71.
21. T. Sathya and **S. Hanis**, “Image Interpolation schemes for enhanced super resolution in Lung cancer X-ray images”, International Conference on Engineering and Technology (ICET): Sri Venkateshwara College of Engineering, Chennai, April 18-20, 2012, pp.557-561.

- 22.K. Lalitha and **S. Hanis**, “Cloud removal and reconstruction of missing data in remote sensing images”, authored by was published in the International Conference on Engineering and Technology (ICET): Sri Venkateshwara College of Engineering, Chennai, April 18-20, 2012, pp.562-565.
- 23.S. Lilly Christina, **P. Vijayalakshmi** and Nagarajan Thangavelu, “HMM Based Speech Recognition System for the Dysarthric Speech Evaluation of Articulatory Subsystem”, Proc. of the Second International Conference on Recent Trends in Information Technology: MIT, Anna University & IEEE Madras Section, MIT Chennai, April 19 – 21, 2012, pp. 54 – 59.
- 24.N. Ramya and **G.Durga**, “Real Time Face Object Detection for Security & surveillance Application” is presented by in 4th the International Conference on Electronic Computer Technology (ICECT 2012): IEEE R-10, Kanyakumari, April 6 – 8, 2012, Vol.2, pp.169-173.
- 25.P. Deepa, **G.Durga** and **S.Joseph Gladwin**, “Removal of High Density Random and Fixed Valued Impulse Noise in Images” 4th International Conference on Electronic Computer Technology (ICECT 2012): IEEE R-10, Kanyakumari, April 6-8, Vol.2, pp.174-178.
- 26.S. Raghuvaran and **Suresh R. Norman**, “Automation of Green house and its Remote Access” International Conference on Electronic Computer Technology: IEEE R-10 at Kanyakumari, April 6-8, 2012, pp.298-302.
- 27.**S. Joseph Gladwin**, K. Shavana, S. Salivahanan, “Performance Analysis of Channel Estimation for MIMO – OFDM Transceiver” 4th International conference on Electronics Computer Technology (ICECT 2012): IEEE R-10 Kanyakumari, April 6-8, 2012.
- 28.Aasha Nandhini **R. Kishore** and S. Radha, “An Efficient Anti jamming Technique for Wireless Sensor Networks”, Second International Conference on Recent Trends in Information Technology (ICRTIT-2012): MIT, Chennai, April 19-21, 2012 , pp. 361-366.
- 29.**Venkateswaran N** and Shiju.R.M, “Optimization of Linear Array Antenna pattern synthesis using Bacterial Foraging Algorithm”, International Conference on Recent Advances in Computing and Software Systems (RACSS 2012): SSN College of Engineering April26-27,2012.
- 30.**Edna Elizabeth N**, Vaidyanathan A , Swetharaksha J, Rajesh Pandian S , Selva Ganesh C and S. Radha, “Self Healing Certificate less Hybrid



Encryption (SHCL-HE)”, International Conference on Communication Systems and Network Technologies, May 11-13, 2012, pp 852-857. .(UG)

- 31.Sreejith B.S and **Jawahar.A**, “Energy Efficient Fault Management Scheme for Wireless Sensor Networks”, International Conference on recent Trends in Computer Science and Enginnering: May 3-4, 2012.
- 32.Parthiban B., Raghavan A., Riyaz Sheriff A., **S. Joseph Gladwin**, "Performance Analysis of OFDM – based Two-Way Relay Networks and Estimation of CFO and Channel Impulse Response", International Conference on Science and Innovative Engineering, organized by Organization of science and Innovative Engineering & Technology (OSIET), 31 March 2012. (UG)
- 33.Mathan Raj M, **Sakthivel Murugan S**, V. Natarajan, **S. Radha** “Denoising algorithm using wavelet for Underwater Signal Affected By Wind Driven Ambient Noise”, IEEE International Conference On Recent trends in information technology MIT, June 3-5, 2011.
- 34.Kiruba Veni S, **Sakthivel Murugan V**. Natarajan, “ Modified LMS Algorithm For Detection Of Underwater Acoustic Signals Against Ambient Noise In Shallow Water at Indian Seas”, International Conference On Emerging Trends In Information technology, June 3-5, 2011.
- 35.**Kaythry.P**, Giftina Jennifer, “Weighted Approach Towards Self Organization In Cellular Networks” , International Conference On Signal Processing, Communication, Computing And Networking Technologies ICSCCN 2011, July 2011, Pp 573-577.
- 36.D.Shanthi, **R.Amutha**, “Design Of Efficient On-Chip Communication Architecture In Mpsoc”, International Conference On Recent Trends In Information Technology ICRTIT 2011, June 2011, Pp 364-369.
- 37.M.Moorthi And **R.Amutha**, “An Improved Algorithm For Medical Image Compression”, OBCOM ,June 2011, Pp 451-460.
- 38.Liza.J, **Muthumeenakshi.K**, **Radha.S**, “Cooperative Spectrum Sensing In A Realistic Cognitive Radio Environemnt”, In Proc. Of Ieee International Conference On Recent Trends In Information Technology, June 2011, Pp 375 – 379.

39. Surendran.R, **Muthumeenakshi.K, Radha.S**, “A Distributed Algorithm For Dynamic Spectrum Access Using Primary Prioritized Markov Model”, In Proc. Of Ieee International Conference On Process Automation Control And Computing, July 2011.
40. Preethi Mahadevan, Pavithra B , S Shri Ranjani ,**Vijayalakshmi P** And Nagarajan T – “Design Of A Lab Model Of A Digital Speech Processor For Cochlear Implants” – Ieee Tencon, Nov 2011.(UG)
41. Shriram Swaminathan, Suraj Krishnan, And **Prabagarane Nagaradjane**, “Transmitter Preprocessing Assisted Mimo Sdma Systems Over Frequency – Selective Channels” Acc, June 2011 Pp. 374-382 (UG)
42. Shriram Swaminathan, Nithin Srinivasan, Sriram Ravichandran, Shruthi Ravichandran and **Prabagarane Nagaradjane**,” Performance of Transmitter Preprocessing Assisted multi-carrier IDMA in frequency Selective channel for downlink communications,” IEEE international conference European Wireless, April 2012. .(UG)
43. Nithin Srinivasan, **Prabagarane Nagaradjane** , Shriram Swaminathan, Shruthi Ravichandran and Sriram Ravichandran, “Transmitter Preprocessing Aided Inter-cell relay Cooperation for Interference Management in Downlink Communications,” IEEE international conference on communications and signal processing ,ICCSP 2012. .(UG)
44. Shruthi Ravichandran, **Prabagarane Nagaradjane**, Selvam PD, Sriram Ravichandran and Nithin Srinivasan “Performance of Preprocessing Aided Relay Assisted Uplink Communications,” IEEE international conference on communications and signal processing, IEEE international conference on communications and signal processing ICCSP 2012. .(UG)
45. Sriram Ravichandran,**Prabagarane Nagaradjane** ,Suraj Krishnan, Nithin Srinivasan, and Shruthi Ravichandran “MUTP Aided MIMO Downlink communication systems with Noisy Feedback: Analysis and Performance Results , IEEE international conference on communications and signal processing, ICCSP 2012.(UG)

46. **Nithin Srinivasan, Sriram Ravichandran, Shruthi Ravichandran and Prabagarane Nagaradjane,**” Multiuser transmitter Preprocessing Aided Downlink communications in correlated Frequency-Selective Channels, Springer Int. Conf., WiMoN 2012.(UG)

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**National Journal**

1. **Sreeja B.S and Radha S** ,”*Simulation of 2.4 GHz Low-Power CMOS LC Quadrature Voltage Controlled Oscillator*”, Journal of Electronics Engineering, 2011 November, Vol.2, No.1,pp. 27-32
2. **Sreeja B.S and Radha S** ,”*Design and Simulation of 2.4 GHz CMOS LC Voltage Controlled Oscillator with High Output Voltage Swing*”, National Journal of Electronic Sciences and Systems, Volume 3 2011, Issue 2, pp 15-22.

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**National conference:**

1. Jeffin Gracewell J and **Ms. Ramani B**, "Development of Tamil speech recognition system" authored by was presented in the National Conference on Signal Processing, Communication and Networking: Sri Venkateswaran College of Engineering, Sriperumbudur, April 3-4, 2012.
2. **Venkateswaran N** and Shiju.R.M, "Performance of Bacterial Foraging Algorithm For Antenna Pattern Synthesis", Seventh National Conference on Optimization Techniques in Engineering Sciences and Technologies: Bannari Amman Institute of Technology, Sathyamangalam, April 20-21, 2012.
3. **Venkateswaran N** and Shiju.R.M, "Bacterial Foraging Algorithm Based Transmitter Power Optimization in Multi user MIMO communication systems", Seventh National Conference on Optimization Techniques in Engineering Sciences and Technologies: Bannari Amman Institute of Technology, Sathyamangalam, April 20-21, 2012.
4. **Jawahar A** and Sharath Kumar R, "Interaction of Combined Topology Management Schemes for Improving Energy Conservation and Lifetime in Wireless Sensor Network", in Proceedings of National Conference on Microwave & Optical Communication – NCMOC2011, pp 27-30.
5. S.Raguvaran, **Suresh R. Norman** "Green house System using GSM Methodology" in the sixth National conference on "Emerging Trends in Communication and Information Technology", ETCIT-12 , on March 2,3 2012 at KSR College of Technology, Namakkal, Tamil Nadu.
6. M.Gulam Nabi Alsath, **S.Esther Florence**, Dr.K.Malathi, "C Band Variable Length Transmission Line Microstrip Patch Reflectarray "2<sup>nd</sup> National Conference on Communication Networks and Sensor Technology NCCNS

2012,23-24<sup>th</sup> March 2012, at Hindustan Institute of Technology & Science, Chennai

7. Sumithra Sofia.D, **Muthumeenakshi.K and Radha.S**, "Decentralized Dynamic Spectrum Allocation in Cognitive Adhoc Networks using Auction Based Game Theoretic Formulations", in Proc of the 6th National Conference on emerging trends in communication, NCETC'12, Chennai, March 2012, pp 34-38.
8. Kalaiyarasi .P, Padmapriya .N and **Vinoth Kumar .C**, "Preprocessing for the Detection of Lesions in Retinal Image Analysis", National Conference on Emerging Trends in Communication and Information Technology, 2<sup>nd</sup> & 3<sup>rd</sup>, March 2012.