



Sri Ramakrishna Institute of Technology

An Autonomous Institution

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Department of Electronics and Communication Engineering

List of Publications

2022-2023

1. Komathy Vanitha Krishnan, **Anila Satish** , Pradeev raj Krishnan “Design of energy efficient approximate subtractors and restoring dividers for error tolerant applications” Microelectronics Journal, doi:10.1016/j.mejo.2022.105668, January 2023.
2. N. Sathiabama, **S. Anila** “A Universal BIST Approach for Virtex-Ultrascale Architecture” Computer Systems Science and Engineering, doi:10.32604/csse.2023.025941, December 2022.
3. G. Ayappan & **S. Anila** “Mayfly Optimization with Deep Belief Network-Based Automated COVID-19 Cough Classification Using Biological Audio Signals” Cybernetics and Systems: An International Journal, doi:10.1080/01969722.2023.2166244, January 2023.
4. R.Deepalakshmi, **Dr.S.Mary Praveena**” Investigation Of Recent Progress On Biodegradable Materials in Antenna Design” Journal For Basic Sciences, February 2023.
5. Leena.B, **A.N.Jayanthi** “Automatic Brain Tumor Classification via Lion Plus Dragonfly Algorithm” Journal of Digital Imaging, pubmed.ncbi.nlm.nih.gov/35711072/, October 2022.
6. Leena.B, **A.N.Jayanthi** “Hybrid Feature Extraction with Ensemble Classifier for Brain Tumor Classification” International Journal of Pattern Recognition and Artificial Intelligence, doi:10.1142/S0218001422500318, July 2022.
7. **Ms.R.Gayathri** & Dr.K.Sheela Sobana Rani “Implementation of Hybrid Deep Reinforcement Learning Technique for Speech Signal Classification” Computer Systems Science & Engineering, doi: 10.32604/csse.2023.032491, January 2023.

8. **J.Shiny Christobel** ,D. Vimala, J. Joshan Athanesious, S. Christopher Ezhil Singh and Sivaraj Murugan “Effectiveness of Feature Extraction by PCA-Based Detection and Naive Bayes Classifier for Glaucoma Images,” International Journal of Digital Multimedia Broadcasting, vol. 2022, Article ID 4802872, 5 pages, October 2022.

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1. D Pavithra, **A N Jayanthi**” An Enhanced Deep Recurrent Neural Network for Autism Spectrum Disorder Diagnosis”, Journal of Medical Imaging and Health Informatics, Volume 11, Number 12, December 2021, pp. 3028-3037(10) doi: 10.1166/jmihi.2021.3893, December 2021.
2. R. Meenal, **D. Binu**, K. C. Ramya, Prawin Angel Michael, K. Vinoth Kumar, B. Sangeetha “Weather Forecasting for Renewable Energy System: A Review”, Archives of Computational Methods in Engineering, Springer doi: 10.1007/s11831-021-09695-3, January 2022.
3. Jim Mathew Philip, **A N Jayanthi** “MANET -based efficient communication in Environmental Monitoring using Improved Satin Bowerbird Single Routing in Zone Routing Protocol” Journal of Environmental Protection and Ecology Vol 22, No 2, pp:790–800, June 2021.
4. D Pavithra, **A N Jayanthi** “An improved adaptive neuro fuzzy interference system for the detection of autism spectrum disorder”, Journal of Ambient Intelligence and Humanized Computing, Springer doi: 10.1007/s12652-020-02332-0, July 2021.
5. K Komathy Vanitha, **S Anila** “Energy efficient high-performance approximate adders for imprecision-tolerant signal processing applications”, Proceedings of the International Conference on Man Machine Systems (ICoMMS 2021) Journal of Physics: Conference Series Volume 2107 doi:10.1088/1742-6596/2107/1/012065, October 2021.
6. Jim Mathew Philip, **A N Jayanthi** “Scalable Time Distributed Mobility Selection Scheme for Reactive Zone based routing protocol on Mobile Adhoc Network” Turkish Online Journal of Qualitative Inquiry (TOJQI) , Volume 12, Issue 3, pp: 4540 – 4552, June 2021.

7. N S Kavitha, Jim Mathew Philip, **A N Jayanthi**” Improved Sustainable Path Allocation Using Historical Backup For Node Interconnectivity Algorithm In MANET”, Turkish Online Journal of Qualitative Inquiry (TOJQI), Volume 12, Issue 8, pp 3205-3221, July 2021.
8. **L.Malathi**, A.Bharathi, **A.N.Jayanthi**, Narmatha C ” FPGA Implementation of Adaptive NMLS Algorithm: Timbre Based Filtering from Multiple Harmonics using FIR Filters” Proceedings of International Conference on Computing and Information Technology (ICCIT), January 2022.

2020-2021

1. Rajasekar P, **Mangalam H** “Design and implementation of power and area optimized AES architecture on FPGA for IoT application”, Circuit World doi: 10.1108/CW-04-2019-0039, June 2020.
2. Sivakumar R, **Mangalam H**” Ensemble hill climbing optimization in adaptive cruise control for safe automated vehicle transportation”, Journal of Supercomputing, Vol. 76, pp. 5780–5800 doi:10.1007/s11227-019-02994-4, August 2020.
3. **S.Anila, S.Mary Praveena, S.S.Sivaraju**” EEG based Driver Drowsiness Detection and Alert System”, LINGUISTICA ANTVERPIENSIA Issue-2, May 2021.
4. **S Mary Praveena, R Kanmani, A K Kavitha** “Analysis and Identification of Tumor Cells In MRI And CT Images Based On Nanotechnology Using Neuro Fuzzy Image Fusion”, IOP Conf. Series: Materials Science and Engineering doi: 10.1088/1757-899X/932/1/012066, December 2020.
5. D.Pavithra, **A.N.Jayanthi**” An improved adaptive neuro fuzzy interference system for the detection of autism spectrum disorder”, Journal of Ambient Intelligence and Humanized Computing, Springer, July 2020.
6. P. F. Khaleelur Rahiman, V. S. Jayanthi, **A.N.Jayanthi** “Design of Low Power Speech Processor-Based Cochlear Implants Using Modified FIR Filter with Variable Frequency Mapping”, Journal of Circuits, Systems and Computers doi:10.1142/S0218126621501097, November 2020.
7. **A N Jayanthi, L.Malathi, S.Munaf** “Wearable Child safety System”, IOP Conf. Series: Materials Science and Engineering doi:10.1088/1757-899X/932/1/012088, December 2020.

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9. Joshan Athanesious.J, Vasuhi S, Vaidehi V, **Shiny Christobel J**, Chakkaravarthy.S, “Detecting Abnormal events in Traffic Videos Surveillance using Superorientation Optical Flow Feature”, *IET Image Processing*, Vol. 14, Issue 9, pp. 1881- 1891 doi: 10.1049/iet-ipr.2019.0549, July 2020.
10. **L.Malathi**, A.Bharathi, **A.N.Jayanthi** “FPGA Implementation in Robust FFT Architecture for Signal Processing Applications”, *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, Blue Eyes Intelligence Engineering & Sciences Publication, ISSN: 2278-3075, Volume-9 Issue-8, June 2020.
11. **G. Sekar, P.M. Benson Mansingh** “Smart Leaf Recognition System”, *International Journal of Engineering and Advanced Technology (IJEAT)*, Vol. 9, Issue 5, pp.289-291, June 2020.

2019-2020

1. Vignesh. O, **Mangalam.H**, S.Gayathri” FPGA architecture for text extraction from images”, *Cluster Computing*, Springer Vol. 22, pp.12137–12146 doi: 10.1007/s10586-017-1567-z, September 2019.
2. Sekar P.C, **Mangalam.H**” Third generation memetic optimization technique for energy efficient routing stability and load balancing in MANET”, *Cluster Computing*, Springer Vol 22, pp. 11941–11948 doi: 10.1007/s10586-017-1524-x, September 2019.
3. Kumar S.S, **Mangalam.H**” Quantization based wavelet transformation technique for digital image compression with removal of multiple artifacts and noises”, *Cluster Computing*, Springer, Vol. 22, pp. 11271–11284 doi:10.1007/s10586-017-1379-1, September 2019.
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5. Prabhu E, **Mangalam.H** “A Delay Efficient Vedic Multiplier”, *Proceedings of the National Academy of Sciences India Section A - Physical Sciences* doi:10.1007/s40010-017-0464-4, June 2019.

6. K.Sheela Sobana Rani, **S.Anila** “Comparison of feed forward, Cascade forward and Layer Recurrent Algorithm model for breast cancer prediction”, IOP Conf. Series: Materials Science and Engineering doi: 10.1088/1757-899X/705/1/012055, December 2019.
7. S.Mary Praveena, **R.Kanmani** “Improved Energy Efficiency of Massive MIMO – OFDM System”, International Journal of Modern Electronics and Communication Engineering, Volume No. - 8, Issue No. – 3, May 2020.
8. Geetha.P, Jayanthi V S, **Jayanthi.A.N**” Multiple share creation based visual cryptographic scheme using diffusion method with a combination of chaotic maps for multimedia applications”, Multimedia Tools and Applications, Springer Vol 78, pp. 18503–18530 doi: 10.1007/s11042-019-7163-x, July 2019.
9. Bojaraj Leena, **Jayanthi.A.N** “Brain tumor segmentation and classification via adaptive CLFAHE with hybrid classification”, International Journal of Imaging System and Technology, doi:10.1002/ima.22420, March 2020.
10. K. Sheela Sobana Rani, **R. Gayathri, R. Lavanya**, K. Uthayasuriyan “Design of Reliable Dense Wavelength Division Multiplexing System for Metropolitan Area Network”, Networks and Systems, Springer Inventive Computation Technologies, pp.782-793 doi: 10.1007/978-3-030-33846-6_85, January 2020.
11. Joshan Athanesious.J, Vasuhi S, Vaidehi V, **Shiny Christobel J**, Jerart Julius L “Adaptive Density Based Data Mining Technique for Detection of Abnormalities in Traffic Video Surveillance”, Journal of Intelligent and Fuzzy Systems, Volume 39(1), pp.1-11 doi: 10.3233/JIFS-192062, January 2020.
12. **P.M.Benson Mansingh**, M.Yuvaraju “Improved data transmission using Li-Fi technology for home automation application”, Journal of Ambient Intelligence and Humanized Computing, Springer doi:10.1007/s12652-020-02072-1, May 2020.
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14. N.K.Anushkannan, **Mangalam.H**” Design of ultra-low power, low complexity and low jitter PLL with digitally controlled oscillator”, International Journal of Advanced Intelligence Paradigms, Vol.15 No.1, pp.98 – 107 doi: 10.1504/IJAIP.2020.104110, December 2019.

15. **L.Malathi, A.Bharathi**” FPGA Implementation of Area Efficient CMOS Multiplier using Fast Kogge Stone Look Ahead Logarithmic Adder”, International Journal of Recent Technology and Engineering (IJRTE), Vol. 8 Issue 4, pp.8445 – 8449, November 2019.
16. **S.Munaf, A.Bharathi, A.N.Jayanthi** “An Enhanced Low Power Dual Data Injection Technique for Coarse - Grained Reconfigurable Architecture”, International Journal of Innovative Technology and Exploring Engineering (IJITEE), Vol. 9 Issue 2, pp.4421 – 4424, December 2019.
17. **D. Binu, M.Vignesh** “Efficient Image Retrieval Techniques for Multi Biometric Images to Improve Biometric Authentication”, International Journal of Recent Technology and Engineering (IJRTE), Vol. 8, Issue 5, pp.443-446, January 2020.
18. Emmanuel Gospel Raj R, **Joby Titus T**, Sanjana Devi V. S “Design And Fabrication Of Copra Sweeping Robot”, International Journal of Innovative Technology and Exploring Engineering, Vol. 8 Issue 10, pp.1994 -1996, August 2019.
19. **R.Lavanya, M. Karpagam**” Analysis of DPA Resistant Adiabatic Logic Style in Low Power Adder Circuits”, International Journal of Scientific and Technology Research, Volume 8, Issue 07, pp.482-487, July 2019.
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21. **N.Savithaa, A.Poornima**” A High speed Area Efficient Compression technique of Dadda multiplier for Image Blending Application”, IEEE Third International conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC) ISBN:978-1-7281-4365-1 doi: 10.1109/I-SMAC47947.2019.9032622, March 2020.

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3. **S.Anila**, K.Sheela Sobana Rani, **B.Saranya**” Fabric Texture Analysis and Weave Pattern Recognition by intelligent processing” *Journal of Telecommunication, Electronics and Computer Engineering*, Vol.10, No.1-13, pp.121-127, August 2018.