



## **JSS MAHAVIDYAPEETHA**

**JSS ACADEMY OF TECHNICAL EDUCATION**

JSSATE Campus, Uttarahalli – Kengeri Main Road, Bengaluru – 560060

**Department of Electronics & Communication Engineering**

### **Publications Details**

#### **Journal Publications: 2024**

1. Dr. Mallikarjunaswamy S, "An efficient unused integrated circuits detection algorithm for parallel scan architecture", International Journal of Electrical and Computer Engineering (IJECE), Vol. 14, No. 1, February 2024, pp. 469~478 ISSN: 2088-8708, DOI: 10.11591/ijece.v14i1.pp469-478
2. Dr. Mallikarjunaswamy S, "An efficient adaptive reconfigurable routing protocol for optimized data packet distribution in network on chips", International Journal of Electrical and Computer Engineering (IJECE) Vol. 14, No. 1, February 2024, pp. 305~314 ISSN: 2088-8708, DOI: 10.11591/ijece.v14i1.pp305-314
3. Dr. Mallikarjunaswamy S., Honnegowda J., Mallikarjunaiah K., (2024). An efficient abnormal event detection system in video surveillance using deep learning-based reconfigurable autoencoder. Ingénierie des Systèmes d'Information, Vol. 29, No. 2, pp. 677-686. <https://doi.org/10.18280/isi.290229>

#### **Conference Publications: 2024**

1. Dr. Veeramma Yatnalli, Dr. Saroja S Bhusare, "Development of Personalized Health Detection Device for Covid-19", 2nd International Conference on Intelligent Data Communication Technologies and Internet of Things 5th & 6th January 2024, Reva University, Bangalore January 2024

#### **Journal Publications: 2023**

1. Sapna Kumari. C, Niranjankumar, Revanna CR, Neelappa, Veeramma Yatnalli ,'Design and performance analysis of the dynamic reduction of Intrinsic Interference Suppression and BER using Qam-based FBMC for MU-MIMO

Communications ' ,International Journal on Recent and Innovation Trends in Computing and Communication, <https://doi.org/10.17762/ijritcc.v11i8s.7240>

2. Sadiya Thazeen, Srikantaswamy Mallikarjunaswamy , 'The effectiveness of 6T beamformer algorithm in smart antennae systems for convergence analysis ' , IJUM Engineering Journal, Vol. 24, No. 2, 2023, DOI: <https://doi.org/10.31436/ijumej.v24i2.2730>
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5. H. N. Mahendra, S. Mallikarjunaswamy & S. Rama Subramoniam , 'An assessment of vegetation cover of Mysuru City, Karnataka State, India, using deep convolutional neural networks ' , Environmental Monitoring and Assessment volume 195, Article number: 526 (2023) , DOI <https://doi.org/10.1007/s10661-023-11140-w>
6. Veeramma Yatnalli, Saroja S. Bhusare, Manjunath A., Neelappa, Prakash , 'Performance Analysis of Graph theory-based Contrast Limited Adaptive Histogram Equalization for Image Enhancement ' , WSEAS TRANSACTIONS on SYSTEMS , DOI: 10.37394/23202.2023.22.23
7. H. N. Mahendra, S. Mallikarjunaswamy, D. Mahesh Kumar, Shilpi Kumari, Shubhali Kashyap, Sapna Fulwani, Aishee Chatterjee , 'Assessment and Prediction of Air Quality Level using ARIMA Model; A case Study of Surat City, Gujarat State, India , Nature Environment and Pollution Technology, Vol. 22, No. 1, 2023, DOI:10.46488/NEPT.2023.v22i01.018

8. Veeramma Yatnalli, Saroja S. Bhusare, B.G. Shivaleelavathi , C. Sheetal, B. Reshma M. Swetha, and H. N. Yashaswini ,'Design and Development of Solar Powered Automatic Irrigation System for Modernization of Agriculture ' ,AGRIVITA Journal of Agricultural Science. 2023. 45(1): 173-187,DOI: <http://doi.org/10.17503/agrivita.v45i1.3753>
9. M. Kavitha, S. Akhila, A. Kannan ,'Design and Implementation of a Second Order Continuous-Time  $\Sigma\Delta$  Modulator for ECG Signal Acquisition ' ,Engineering, Technology & Applied Science Research(ETASR), vol. 13, no. 1, pp. 10128–10133, Feb. 2023.,<https://doi.org/10.48084/etasr.5567>
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11. Ambily Babu, B. G. Shivaleelavathi, Veeramma Yatnalli ,'Efficiency Analysis and Design Considerations of a Hysteretic Current Controlled Parallel Hybrid Envelope Tracking Power Supply ' ,Engineering, Technology & Applied Science Research, Vol. 13, No. 1, 2023, 9812-9818,<https://doi.org/10.48084/etasr.5414>
12. Venkatesh, D.Y., Mallikarjunaiah, K., Srikantaswamy, M. ,'A high-throughput reconfigurable LDPC codec for wide band digital communications ' ,Journal Européen des Systèmes Automatisés, Vol. 56, No. 4, pp. 529-538,<https://doi.org/10.18280/jesa.560402>
13. Divyashree Yamadur Venkatesh, Komala Mallikarjunaiah, Mallikarjunaswamy Srikantaswamy ,'An efficient reconfigurable code rate cooperative low-density parity check codes for gigabits wide code encoder/decoder operations ' ,International Journal of Electrical and Computer Engineering (IJECE) Vol.13, No.6, December2023, pp. 6369~6377,DOI: 10.11591/ijece.v13i6.pp6369-6377
14. Mamatha M. Pandith, Nataraj Kanathur Ramaswamy, Mallikarjunaswamy Srikantaswamy, Rekha Kanathur Ramaswamy ,'An efficient reconfigurable geographic routing congestion control algorithm for wireless sensor networks ' ,

,International Journal of Electrical and Computer Engineering (IJECE)Vol.13, No.6, December2023, pp6388-6398,DOI: 10.11591/ijece.v13i6.pp6388-6398

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16. Chandana Chikkasiddaiah, Parthasarathy Govindaswamy, Mallikarjunaswamy Srikantaswamy , 'An efficient hydro-crop growth prediction system for nutrient analysis using machine learning algorithm ' ,International Journal of Electrical and Computer Engineering (IJECE)Vol.13, No.6, December2023,pp6681-6690,DOI: 10.11591/ijece.v13i6.pp6681-6690
17. H.N. Mahendra and S. Mallikarjunaswamy , 'An analysis of change detection in land use land cover area of remotely sensed data using supervised classifier ' ,International Journal of Environmental Technology and Management, Volume 26, Year 2023, pp 498-511, <https://doi.org/10.1504/IJETM.2023.134322>
18. S Rama Subramoniam, Mallikarjunaswamy Swamy, H.N. Mahendra , "An assessment of built-up cover using geospatial techniques – a case study on Mysuru district, Karnataka state, India". ' ,International Journal of Environmental Technology and Management, <https://doi.org/10.1504/IJETM.2023.130787>
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20. Vijay Kumar Reddy I, Aravinda H S , 'Designing a Fault-Tolerant System for Hearing Aids: Echo Detection and Rectification Using SVM Classifier ' ,Tuijin Jishu/Journal of Propulsion Technology, DOI: <https://doi.org/10.52783/tjjpt.v44.i4.1295>

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- 24.Dr.H.N.Mahendra, Dr. Mallikarjunaswamy S, "An analysis of change detection in land use land cover area of remotely sensed data using a supervised classifier", International Journal of Environmental Technology and Management, 3rd October 2023, <https://doi.org/10.1504/IJETM.2023.134322>
- 25.Dr. Mallikarjunaswamy S, "An efficient reconfigurable code rate cooperative low-density parity check codes for gigabits wide code encoder/decoder operations",ISSN: 2088-8708, DOI: 10.11591/ijece.v13i6 International Journal of Electrical and Computer Engineering (IJECE) Vol. 13, No. 6, December 2023, pp. 6369~6377
- 26.Mrs. Kavitha H S, Mr. Manohar B S, Dr. G Parameshwarappa, "Comparative Study of RISC-V ISA for Low-Power Applications", Semiconductor Optoelectronics, Vol. 42 No. 2 (2023), 770-781, <https://bdtgd.cn/>,ISSN: 1001-5868, December 2023
- 27.Ms. B.M. Yashaswini, "Energy efficient greedy tree based algorithm for data aggregation in wireless sensor network", Measurement Sensors, Volume 30, December 2023, 100910, <https://www.sciencedirect.com/science/article/pii/S2665917423002465>

28. Bhusare S., Yatnalli V, Kumar S. & Neelappa N.,(2023, December 1). Improving graphics processing unit performance based on neural network direct memory access controller. Indonesian Journal of Electrical Engineering and Computer Science, 32(3), 1476. <https://doi.org/10.11591/ijeecs.v32.i3.pp1476-1484>

### **Conference Publications: 2023**

1. Sahana A R, Chiraag V, Gautham Suresh, Thejaswini P, Sukumar Nandi, ' Application of Error Detection and Correction Techniques to Self-Checking VLSI Systems: An Overview ', 2023 IEEE Guwahati Subsection Conference (GCON), DOI: 10.1109/GCON58516.2023.10183449
2. Sagar Dev Achar, Shankar Singh C, Thejaswini P, Sukumar Nandi, ' Secure Video Streaming Techniques: A Performance Overview ', 2023 IEEE Guwahati Subsection Conference (GCON), DOI: 10.1109/GCON58516.2023.10183567
3. Hrushik Raj S, Thejaswini P, Sukumar Nandi, ' Reverse Engineering techniques for Android systems: A Systematic approach ', 2023 IEEE Guwahati Subsection Conference (GCON), DOI: 10.1109/GCON58516.2023.10183629
4. N Poornima, G S Gunasagari, Ankitha S Bangar, Pokala Sai Sparsha Prasad, Poorvi Pai, Poorvi Pai, ' Patronus: Fire Detection and Extinguisher System using Image Processing ', 7th IEEE International Conference on Intelligent Computing and Control Systems (ICICCS), DOI: 10.1109/ICICCS56967.2023.10142665
5. Saroja S Bhusare, Veeramma Yatnalli, Shreyas E , Shreeram Aithal , Gayana A Jain, Sreekaar O, ' Optimized Reversible Arithmetic and Logic Unit ', 4th International Conference on Communication and Intelligent Systems (ICCIS 2022), NIT, Delhi, [https://doi.org/10.1007/978-981-99-2100-3\\_50](https://doi.org/10.1007/978-981-99-2100-3_50)
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7. Saroja S Bhusare, Veeramma Yatnalli, Sanket G Patil , Shailesh Kumar, Niranjana Ramanna Havinal , Subhash C S,' Machine Learning and Digital Image Processing in Lung Cancer Detection ',2nd International Conference on Intelligent Vision and Computing 2022 (ICIVC 22),[https://doi.org/10.1007/978-3-031-31164-2\\_6](https://doi.org/10.1007/978-3-031-31164-2_6)
8. M. L. Umashankar, S. Mallikarjunaswamy, N. Sharmila, D. Mahesh Kumar & K. R. Nataraj,' A Survey on IoT Protocol in Real-Time Applications and Its Architectures ',ICDSMLA 2021. Lecture Notes in Electrical Engineering, vol 947. Springer, Singapore.,[https://doi.org/10.1007/978-981-19-5936-3\\_12](https://doi.org/10.1007/978-981-19-5936-3_12)
9. D. Prakyath, S. Mallikarjunaswamy, N. Sharmila, V. Rekha & S. Pooja ,' A Comprehensive Review on Fault Data Injection in Smart Grid ',ICICCT 2023. Lecture Notes in Networks and Systems,,[https://doi.org/10.1007/978-981-99-5166-6\\_44](https://doi.org/10.1007/978-981-99-5166-6_44)
10. Kavitha H S, Shilpa S Patil,' Implementation of LBPH Algorithm for Covid Patient Isolation Violation Detection ',IEEE 7th International Conference on Recent Advances and Innovations in Engineering (ICRAIE),<https://doi.org/10.1109/ICRAIE56454.2022.10054259>
11. Sowmya R Bangari; Sunita Shirahatti; Veerabhadrapa S T; Suguna G C; Kavitha H S,' Communication Decipher: Text to Speech and Hand Gesture to Speech Conversion ',IEEE Second International Conference on Advanced Technologies in Intelligent Control, Environment, Computing & Communication Engineering (ICATIECE), <https://doi.org/10.1109/ICATIECE56365.2022.10046699>
12. Sunita Shirahatti, Rajashekhar Shettar, Rohini Hongal, Uma Malenahalli,' Performance analysis of RNS Arithmetic Operations using Reversible Logic ',2022 Fourth International Conference on Emerging Research in Electronics , Computer Science and Technology, 10.1109/ICERECT56837.2022.10060538
13. Shubha B, Poornima N, Vachana M Gowda, Sushma U, Meghana Y R, Bhoomika T S, "Emotion Recognition based on PPG and GSR Signals using DEAP Dataset", 2023 International Conference on Network, Multimedia and Information

Technology (NMITCON), DOI: 10.1109/NMITCON58196.2023.10276131, October 2023 <https://ieeexplore.ieee.org/document/10276131/authors#authors>

14. Dr. Mallikarjunaswamy S, "A Comprehensive Review on Fault Data Injection in Smart Grid", International Conference on Information, Communication and Computing Technology, ICICCT 2023, October 2023 Lecture Notes in Networks and Systems, vol 757. Springer, Singapore. [https://doi.org/10.1007/978-981-99-5166-6\\_44](https://doi.org/10.1007/978-981-99-5166-6_44)
15. Dr. Thejaswini P, "Strengthening NoC Security: Leveraging Hybrid Encryption for Data Packet Protection", Strengthening NoC Security: Leveraging Hybrid Encryption for Data Packet Protection, <https://doi.org/10.1109/TENCON58879.2023.10322428>
16. Dr. Veerabhadrappe S T, Mrs. Suguna G C, Hrishiksha, Deepika A J, Aruna Kirana Kumar, Sinchana S H, Harshit Kumar B, "Machine Learning Approach for Tuberculosis Classification Using Segmentation", "2nd IEEE International Interdisciplinary Humanitarian Conference for Sustainability (IIHC-2023)" held on 3rd & 4th November 2023 Sri Venkateshwara College of Engineering, Bengaluru
17. Mrs. Gouri S Katageri, Dr P. M. Shivakumara Swamy, "Denoising of Synthetic Aperture Radar Images Using Dual Tree Curved Wavelet Transform with Modified Cellular Neural Networks", International Conference on Emerging Research in Computing, Information, Communication and Applications, [https://doi.org/10.1007/978-981-99-7622-5\\_12](https://doi.org/10.1007/978-981-99-7622-5_12), [https://link.springer.com/chapter/10.1007/978-981-99-7622-5\\_12](https://link.springer.com/chapter/10.1007/978-981-99-7622-5_12), December 2023
18. Dr. Sangeetha K N, "Machine Learning in Precision Agriculture", 2023 4th International Conference on Communication, Computing and Industry 6.0 (C216), 15th & 16th December 2023, CMRIT, Bengaluru.
19. Dr. Sangeetha K N & Dr. Usha B A, A Survey on Big Data in Cyber Security, (September 2023), IEEE International Conference on Multidisciplinary Research in Technology & Management & New Horizon College of Engineering, Bengaluru.



20. S. Sheela, K. B. Naveen, N. M. Basavaraju, D. Mahesh Kumar, M. Krishnaiah and S. Mallikarjunaswamy,;An efficient vehicle to vehicle communication system using intelligent transportation system, (ICRASET-2023),pp. 1-6, DOI:10.1109/ICRASET59632.2023.10420043
21. Mallikarjunaswamy, M Kavitha, Jyothi S, Narendra Kumar, Sharmila N, & Kavya B M.:A machine learning based power load prediction system for smart grid energy management; (ICRASET-2023),pp. 1-6, DOI:10.1109/ICRASET59632.2023.10420183
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23. S. Mallikarjunaswamy, B. M. Kavya, N. Sharmila, K. B. Naveen, , K. S. Manu and S.Manjunatha,; A Machine Learning based Smart Grid for Home Power Management using Cloud-Edge Computing System,;(ICRASET-2023),pp. 1-6, DOI:10.1109/ICRASET59632.2023.10419952

## **Journal Publications: 2022**

1. Dr. B G Shivaleelavathi, Dr. Veeramma Yatnalli, A Comprehensive Review on Supply Modulators and Control Strategies for Envelope Tracking RF Power Amplifiers in Mobile Communication, IETE Journal of Research, Taylor and Francis, DOI: 10.1080/03772063.2021.1987998.
2. Mrs. Latha B N, Optimal path discovery for two moving sinks with a common junction in a wireless sensor network, Indonesian Journal of Electrical Engineering and Computer Science (ijeecs), DOI:10.11591/ijeecs.v23.i2.pp879-889.

3. Dr. Poornima N, Threshold Compare and Load Balancing Algorithm to for Resource Optimization in a Green Cloud, Revista Gestão Inovação e Tecnologias, DOI:10.47059/revistageintec.v11i4.2473.
4. Dr. Poornima N, Mrs. Shubha B, Internet of Behavior: A Sneak Peek, Efflatounia – Multidisciplinary Journal.
5. Dr. Mallikarjunaswamy S, An efficient hybrid reconfigurable wind gas turbine power management system using MPPT algorithm, International Journal of Power Electronics and Drive Systems (IJPEDS), DOI: <http://doi.org/10.11591/ijpeds.v12.i4.pp2501-2510>.
6. Mrs. Suguna G C, Dr. S T Veerabhadrapa, Analysis Of HRV And Classification During Normal Pregnancy Using Support Vector Classifier, *gis.Science - Die Zeitschrift fur Geoinformatik*.
7. Dr. PM Shivakumaraswamy, Smart mirror with Alexa using Raspberry Pi, International Journal of Engineering Applied Sciences and Technology(IJEAST), ISSN No. 2455-2143.
8. Dr. Usha S.M, A new approach to improve the performance of OFDM signal for 6G communication, DOI: <https://doi.org/10.48550/arXiv.2206.01979>.
9. Mrs. Savitha A C, Dr. Parameshappa G and Dr. Aravind H S, Integration of DFI Board with LTE-CAT-M for M2M Communication, Journal of Advanced Research in Wireless, Mobile & Telecommunication.
10. Dr. Sathish Shet, Mrs. Latha B N, Optimization in the Ad Hoc On-Demand Distance Vector Routing Protocol, Journal of Wireless Communications and Mobile Computing, DOI: <https://doi.org/10.1155/2022/7322291>.
11. Mrs. Suguna G C, Dr. S T Veerabhadrapa, A Machine learning Classification approach for detection of Covid 19 using CT images, Emitter: International Journal of Engineering Technology. DOI: <https://doi.org/10.24003/emitter.v10i1.672>.

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- 14.Thejaswini P, Anu H, Aravind H S, D Mahesh Kumar, Syed Asif, Thirumalesh B, Pooja C A, Pavan G R, "Hardware Trojan Detection based on Testability Measures in Gate Level Netlists using Machine Learning", International Journal of Advanced Computer Science and Applications SCIENCE & INFORMATION SAI ORGANIZATION LTD, 2022
- 15.Veeramma Yatnalli, Saroja S. Bhusare, B.G. Shivaleelavathi, C. Sheetal, B. Reshma, M. Swetha, and H. N. Yashaswini. , "Design and Development of Solar Powered Automatic Irrigation System for Modernization of Agriculture", AGRIVITA Journal of Agricultural Science Faculty of Agricultural University of Brawijaya, 2022
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- 17.Mahendra H N, and Mallikarjunaswamy, "An Efficient Classification of Hyperspectral Remotely Sensed Data Using Support Vector Machine", SINTL JOURNAL OF ELECTRONICS AND TELECOMMUNICATIONS, Poolish, 2022
- 18.M Kavitha , Akhila S, Anand Kannan , "Design and Implementation of a Second Order Continuous-Time  $\Sigma\Delta$  Modulator for ECG Signal Acquisition", Technology

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21. Sangeetha K.N, Dr. Seema Singh, Dr. Usha B.A., "Development of Novel Blockchain Technology for Certificate Management System using Cognitive Image Steganography Techniques", JOURNAL OF ALGEBRAIC STATISTICS, 2022

### **Conference Publications: 2022**

1. Mrs. H. S. Kavitha, Mrs. Shilpa Patil, M. S. Abhiram, Ashik J. Shetty, Ganesh Gowtam & Ananya Srinath, Review paper on COVID-19 Patient Isolation Detector, Proceedings of Third International Conference on Intelligent Computing, Information and Control Systems, Advances in Intelligent Systems and Computing, vol 1415. Springer, Singapore. [https://doi.org/10.1007/978-981-16-7330-6\\_23](https://doi.org/10.1007/978-981-16-7330-6_23).
2. Mr. H.N Mahendra; Dr. Mallikarjunaswamy S, Chandan B Nooli, M Hrishikesh, N Kruthik and Havish Manikya Vakkalanka Cloud based Centralized Smart Cart and Contactless Billing System, 7th International Conference on Communication and Electronics Systems(ICCES-2022), DOI: 10.1109/ICCES54183.2022.9835856, IEEE Xplore.
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