



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>
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8. Tarannum, S., Usha, S. M., & Ahammed, G. F. A. (2024). A comprehensive study of LPWAN, LoRaWAN for IoT: Background, related research, performance, potential challenges and proposed methodology. *AIP Conference Proceedings*, 3122, 080001. <https://doi.org/10.1063/5.0216057>.
9. Mahendra, H., Pushpalatha, V., Mallikarjunaswamy, S., Subramoniam, S. R., Rao, A. S., & Sharmila, N. (2024). LULC change detection analysis of Chamarajanagar district, Karnataka state, India using CNN-based deep learning method. *Advances in Space Research*. <https://doi.org/10.1016/j.asr.2024.07.066>.
10. Achar, S. D., P, T., Nandi, S., & Nandi, S. (2024). LiteHash: Hash functions for Resource-Constrained hardware. *ACM Transactions on Embedded Computing Systems*. <https://doi.org/10.1145/3677181>.
11. Shankara, K. H., Srikantaswamy, M., & Nagaraju, S. (2024c). Optimizing energy storage and hybrid inverter performance in smart grids through machine learning. *Information Dynamics and Applications*, 3(3), 146–161. <https://doi.org/10.56578/ida030301>.
12. Honnegowda, J., Mallikarjunaiah, K., & Srikantaswamy, M. (2024). Enhanced abnormal event detection in surveillance videos through optimized regression algorithms. *Journal of Intelligent Systems and Control*, 3(2), 121–134. <https://doi.org/10.56578/jisc030205>.

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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
2. Dr. Anuradha M G, Niranjana L, Ananth Kumar M S, Parthasarathy P, Venkatesh M, Imtiyaz Ahmed B K. ADS-based Redeployment Strategy for Wireless Sensor Networks to Improve Coverage Time and Distance. *Proceedings of the International Conference on recent advances in science and engineering technology*, March 2024 in IEEE Xplore, ISBN:979-8-3503-0693-4, DOI: 10.1109/ICRASET59632.2023.10420390.
3. Mr. Basavaraju N M, Dr. U B Mahadevaswamy, and Dr. Mallikarjunaswamy, Design and Implementation of Crop Yield Prediction and Fertilizer Utilization Using IoT and Machine Learning in Smart Agriculture Systems, *Proceedings of Second International Conference on Networks, Multimedia and Information Technology (NMITCON)*, August -2024. DOI: 10.1109/NMITCON62075.2024.10699184.
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6. Dr. Savitha AC, Dr. MallikarjunaSwamy S, Renewable Energy-Based Smart Agriculture Systems for Climate Change Prediction and Impact Mitigation, Proceedings of 2nd IEEE International Conference on Networks, Multimedia and Information Technology (NMITCON), August 2024. DOI: 10.1109/NMITCON62075.2024.10698969
7. M. Suresh Anand, S. Venkatramulu, Sesha Vidhya S, W T Chembian, Yashaswini B M, Magesh Kumar B, Jellyfish Search Optimizer with Deep Learning Driven Cervical Cancer Recognition and Classification Model on Biomedical Images, Proceedings of the Second International Conference on Advances in Information Technology, in IEEE Xplore, DOI: 10.1109/ICAIT61638.2024.10690369
8. Ambily Babu, B. G. Shivaleelavathi, Veeramma Yatnalli, Delay Minimization Technique to improve the efficiency of Parameter Optimized Hysteretic Current Controlled Parallel Hybrid ETPA in Mobile Communication, Proceedings of 2024 IEEE International Conference on Contemporary Computing and Communications (InC4), in IEEE Xplore, DOI: 10.1109/InC460750.2024.10649108
9. Narendra Kumar, P M Shivakumarswamy, N Nikhil, Nagaraj Moger, M.Vijay Raghav, B M Kavya, N Yuvaraj, H N Mahendra, S Mallikarjunaswamy, Proceedings of 2024 Second International Conference on Networks, Multimedia and Information Technology(NMITCON-2024), in IEEE Xplore, DOI: 10.1109/NMITCON62075.2024.10698816
10. H.S Kavitha, S M Usha, S.N Sheela, H Anu, N Sharmila, S Mallikarjunaswamy, N M Basavaraju, P Ravi, G S Pavithra, Proceedings of 2nd IEEE International Conference on Networks, Multimedia and Information Technology (NMITCON), August 2024. DOI: 10.1109/NMITCON62075.2024.10698915

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 ' , IIUM Engineering Journal, Vol. 24, No. 2, 2023, DOI: <https://doi.org/10.31436/iiumej.v24i2.2730>
3. Shubha B, Anuradha M G, Poornima N, Suprada H S, Prathiksha R V , 'Implementation of blood Glucose and cholesterol monitoring device using non-invasive technique ' , EMITTER International Journal of Engineering Technology, Vol. 11, No. 1, June 2023, pp. 76~88, DOI : 10.24003/emitter.v11i1.766
4. T. Hemalatha, A. Bhuvaneswari, N Poornima, B Shubha, K. Santhi, M. Lawanyashri, Geeta C. Mara , 'Secure and private data sharing in CPS e-health systems based on CB-SMO techniques ' , Measurement: Sensors Volume 27, June 2023, 100787 , <https://doi.org/10.1016/j.measen.2023.100787>
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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

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8. Veeramma Yatnalli, Saroja S. Bhusare, B.G. Shivalvelavathi , 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>
10. Pooja S, Mallikarjunaswamy S, Sharmila N , 'Image region driven prior selection for image deblurring ' ,Multimedia Tools and Applications volume 82, pages24181–24202 (2023),DOI <https://doi.org/10.1007/s11042-023-14335-y>
11. Ambily Babu, B. G. Shivalvelavathi, 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>
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,International Journal of Electrical and Computer Engineering (IJECE)Vol.13, No.6, December2023, pp. 6369~6377,DOI: 10.11591/ijece.v13i6.pp6369-6377

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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
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- 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>
- 19.BH Raghunath, HS Aravind , 'An Efficient FPGA-Based Dynamic Partial Reconfigurable Implementation ' ,International Journal of Intelligent Systems and Applications in Engineering,

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/tijpt.v44.i4.1295>
21. V Vijayalakshmi, DM Kumar, SCP Kumar, S Veeramani , 'Soil salinity prediction based on hybrid classifier: study on Bellary and Chamarajanagar district in Karnataka ' , Multimedia Tools and Applications,
22. SS Dambal, MK Doddananjedevaru, SB Gopalakrishna , ' A Hybrid Feature Dimension Reduction and SVM for a Classification of Heart Rate Variability. ' , International Journal of Intelligent Engineering & Systems, DOI: 10.22266/ijies2023.1031.10
23. Vijayalakshmi Venugopal, Doddananjedevaru Mahesh Kumar | Veeramani Selvaraj | Shiradanahalli Chandrashekaraiah Prasanna Kumar , 'Analysis of Salinity Indices Using SVM Based Approach of Ballari Town, India ' , Mathematical Modelling of Engineering Problems, Vol. 10, No. 5, October, 2023, pp. 1803-1810, Journal homepage: <http://iieta.org/journals/mmep>, DOI: <https://doi.org/10.18280/mmep.100532>
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
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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

6. G. S. Pavithra, S. Pooja, V. Rekha, H. N. Mahendra, N. Sharmila & S. Mallikarjunaswamy , ' Comprehensive Analysis on Vehicle-to-Vehicle Communication Using Intelligent Transportation System ',International Conference on Soft Computing for Security Applications(ICSCS 2023),https://doi.org/10.1007/978-981-99-3608-3_62
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
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
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
- 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; Veerabhadrappe 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

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>
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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://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.
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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

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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.

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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>.
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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>.
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