

Total Unique Publications: 47

2024 (9)

1. Bidari, Indira, and Satyadhyan Chickerur. "Deep Recurrent Residual U-Net with Semi-Supervised Learning for Deforestation Change Detection." *SN Computer Science* 5, no. 7 (2024): 893.
2. Konnurmath, Guruprasad, and Satyadhyan Chickerur. "Real-time frame rate controlled dynamic voltage and frequency scaling for GPU power consumption optimization." In *AIP Conference Proceedings*, vol. 3131, no. 1. AIP Publishing, 2024.
3. Jadhav, Varsha S., Rajesh Yakkundimath, and Guruprasad Konnurmath. "Cervical Cancer Severity Characterization Using Machine Learning Techniques." *Indian Journal of Gynecologic Oncology* 22, no. 4 (2024): 1-10.
4. Badiger, Ramesh M., Rajesh Yakkundimath, Guruprasad Konnurmath, and Praveen M. Dhulavvagol. "Deep Learning Approaches for Age-based Gesture Classification in South Indian Sign Language." *Engineering, Technology & Applied Science Research* 14, no. 2 (2024): 13255-13260.
5. Kampli, Gurunath, Satyadhyan Chickerur, and Manjoykumar Chitawadagi. "IoT system implementation for real-time concrete strength prediction: experimental design, variance evaluation, cost analysis, and implementation ease." *Innovative Infrastructure Solutions* 9, no. 7 (2024): 260.
6. Chickerur, Satyadhyan, Sankalp Balannavar, Pranali Hongekar, Aditi Prerna, and Soumya Jituri. "WebGL vs. WebGPU: A Performance Analysis for Web 3.0." *Procedia Computer Science* 233 (2024): 919-928.
7. Konnurmath, Guruprasad, and Satyadhyan Chickerur. "GPU Shader Analysis and Power Optimization Model." *Engineering, Technology & Applied Science Research* 14, no. 1 (2024): 12925-12930.
8. Navalgund, Nagaraj, Sanjay V. Hanji, Shashidhar S. Mahantshetti, Satyadhyan Chickerur, and Rashmi Sajjanar. "Driving Factors of Mobile Payment Adoption: A Focus on Gen-Z Consumers." In *International Conference on Smart Computing and Communication*, pp. 273-283. Singapore: Springer Nature Singapore, 2024.
9. Kampli, Gurunath, Chaitanya Akkannavar, M. V. Chitawadagi, and Satyadhyan Chickerur. "Experimental investigation on the effect of different types of fine aggregates and cement on real-time measurement of concrete compressive strength using maturity functions." In *E3S Web of Conferences*, vol. 559, p. 04008. EDP Sciences, 2024.

2023 (12)

1. Bidari, Indira, Satyadhyan Chickerur, and Srishti Kadam. "Semantic Segmentation Using U-Net Architecture for Change Detection on Hyperspectral Imagery." In *2023 International Conference on Sustainable Communication Networks and Application (ICSCNA)*, pp. 932-937. IEEE, 2023.
2. Revant, Siri Shivashankar, and Satyadhyan Chickerur. "Simulating Quantum Hardware using Qiskit Metal." In *2023 International Conference on Computer, Electronics & Electrical Engineering & their Applications (IC2E3)*, pp. 1-6. IEEE, 2023.
3. Dandin, Joel, and Satyadhyan Chickerur. "Accelerating fluid flow in Quantum Computing using GPU." In *2023 International Conference on Computer, Electronics & Electrical Engineering & their Applications (IC2E3)*, pp. 1-6. IEEE, 2023.
4. Hiremath, Uma M., and Satyadhyan Chickerur. "Deep Learning Based Blood Flow Analysis in MRI Images." In *2023 Third International Conference on Ubiquitous Computing and Intelligent Information Systems (ICUIS)*, pp. 219-227. IEEE, 2023.
5. Bilal, Maliha Simeen, Satyadhyan Chickerur, and Shantala Giraddi. "Implementation of Basic Mathematical Operations on Openpower-ISA of Libresoc." In *International conference on soft computing for problem-solving*, pp. 109-122. Singapore: Springer Nature Singapore, 2023.

6. Patil, Sanskruti S., Mahesh S. Patil, Satyadhyan Chickerur, Shantala Giraddi, Seetharam N. Shahapur, and Anup Hadalageri. "Distributed Deep Learning with Data Parallelism for Diabetic Retinopathy Classification." In *International Conference on Smart Trends in Computing and Communications*, pp. 49-60. Singapore: Springer Nature Singapore, 2023.
7. Hiremath, Uma M., and Satyadhyan Chickerur. "Unveiling Complexity: Synergizing Deep Learning and Computational Fluid Dynamics for Blood Flow Analysis." In *2023 IEEE Technology & Engineering Management Conference-Asia Pacific (TEMSCON-ASPAC)*, pp. 1-8. IEEE, 2023.
8. Kampli, Gurunath, Satyadhyan Chickerur, and M. V. Chitawadagi. "Real-time in-situ strength monitoring of concrete using maturity method of strength prediction via IoT." *Materials Today: Proceedings* 88 (2023): 110-118.
9. Patil, Mahesh S., Satyadhyan Chickerur, C. Abhimalya, Anishma Naik, Nidhi Kumari, and Shashank Maurya. "Effective deep learning data augmentation techniques for diabetic retinopathy classification." *Procedia Computer Science* 218 (2023): 1156-1165.
10. Konnurmath, Guruprasad, and Satyadhyan Chickerur. "An Investigation into Power Aware Aspects of Rendering 3D Models on Multi-Core Processors." *Procedia Computer Science* 218 (2023): 887-898.
11. Patil, Mahesh S., and Satyadhyan Chickerur. "Study of data and model parallelism in distributed deep learning for diabetic retinopathy classification." *Procedia Computer Science* 218 (2023): 2253-2263.
12. Giraddi, Vishal, Shantala Giraddi, Suvarna Kanakaraddi, and Mahesh Patil. "Assessment of Lung Cancer Histology Using Efficient Net." In *Mobile Computing and Sustainable Informatics: Proceedings of ICMCSI 2023*, pp. 395-403. Singapore: Springer Nature Singapore, 2023.

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1. Rajashekharaiyah, K. M. M., Satyadhyan Chickerur, Goutam Hegde, Subrahmanya L. Bhat, and Shubham Annappa Sali. "Sentence Classification Using Quantum Natural Language Processing and Comparison of Optimization Methods." In *International Advanced Computing Conference*, pp. 85-98. Cham: Springer Nature Switzerland, 2022.
2. Ballari, Gayatri Shrinivas, Shantala Giraddi, Satyadhyan Chickerur, and Suvarna Kanakareddi. "An Explainable AI-Based Skin Disease Detection." In *ICT Infrastructure and Computing: Proceedings of ICT4SD 2022*, pp. 287-295. Singapore: Springer Nature Singapore, 2022.
3. Giraddi, Shantala, Satyadhyan Chickerur, Mahesh S. Patil, Suvarna Kanakaraddi, and Vishal Giraddi. "Lightweight Convolution Neural Network for Diabetic Retinopathy Grading." In *2022 IEEE 2nd Mysore Sub Section International Conference (MysuruCon)*, pp. 1-5. IEEE, 2022.
4. Kumbalavati, S. B., Kirankumar Y. Bendigeri, Jayashree D. Mallapur, Piyushkumar Pareek, and Mahesh S. Patil. "Security Augmentation Approach for Internet of Things Enhanced Cryptographic Algorithm." In *2022 6th International Conference on Intelligent Computing and Control Systems (ICICCS)*, pp. 401-405. IEEE, 2022.
5. Hiremath, Sneha, Satyadhyan Chickerur, Joel Dandin, Mihir Patil, Bhoomi Muddinkoppa, and Shreerama Adakoli. "Open-source Hardware: Different Approaches to Softcore implementation." In *2022 International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics (DISCOVER)*, pp. 76-83. IEEE, 2022.
6. Giraddi, Shantala, Swathi Mugdha, Suvarna Kanakaraddi, and Satyadhyan Chickerur. "Glaucoma diagnosis: handcrafted features versus deep learning." In *Mobile Computing and Sustainable Informatics: Proceedings of ICMCSI 2022*, pp. 869-881. Singapore: Springer Nature Singapore, 2022.
7. Rakshith, R. M., Vineet Lokur, Prateek Hongal, Vivek Janamatti, and Satyadhyan Chickerur. "Performance analysis of distributed deep learning using horovod for image classification." In *2022 6th International Conference on Intelligent Computing and Control Systems (ICICCS)*, pp. 1393-1398. IEEE, 2022.

8. Chickerur, Satyadhyam, and Vasavi Kumbargeri. "Quantum Generative Adversarial Networks." In *Data Intelligence and Cognitive Informatics: Proceedings of ICDICI 2021*, pp. 59-72. Singapore: Springer Nature Singapore, 2022.
9. Patil, Shashank Anand, Mahesh S. Patil, Shantala Giraddi, Satyadhyam Chickerur, Vinayak M. Boormane, and Ganesh Gamanagatti. "Pipeline parallelism in distributed deep learning for diabetic retinopathy classification." *Procedia Computer Science* 215 (2022): 393-402.

2021 (11)

1. Bidari, Indira, Satyadhyam Chickerur, Akshay Kulkarni, Anish Mahajan, Amogh Nikkam, and T. H. M. Abhishek. "Deploying machine learning inference on diabetic retinopathy in binary and multi-class classification." In *2021 International Conference on Industrial Electronics Research and Applications (ICIARA)*, pp. 1-6. IEEE, 2021.
2. Bidari, Indira, Satyadhyam Chickerur, and T. H. M. Abhishek. "Hybrid convolutional neural network with change detection on hyperspectral imagery." In *2021 International Conference on Industrial Electronics Research and Applications (ICIARA)*, pp. 1-6. IEEE, 2021.
3. Karur Mudugal Mathad, Rajashekharaiyah, Abhishek Saurabh, Aditya Mishra, Sambhav Jain, Purushottam Kumar, Vardaan, and Satyadhyam Chickerur. "Transfer Learning Using Variational Quantum Circuit." In *International Advanced Computing Conference*, pp. 254-267. Cham: Springer International Publishing, 2021.
4. Chickerur, Satyadhyam, and P. Ashish. "A convolutional neural network based approach for computational fluid dynamics." In *2021 Second International Conference on Smart Technologies in Computing, Electrical and Electronics (ICSTCEE)*, pp. 1-5. IEEE, 2021.
5. Konnurmamath, Guruprasad, and Satyadhyam Chickerur. "Power-Aware Characteristics of Matrix Operations on Multicores." *Applied Artificial Intelligence* 35, no. 15 (2021): 2102-2123.
6. Bidari, Indira, Satyadhyam Chickerur, Akshay Kulkarni, Anish Mahajan, Amogh Nikkam, and Sumanth Akella. "Change Detection and Classification using Hyperspectral Imagery." In *2021 2nd International Conference on Range Technology (ICORT)*, pp. 1-6. IEEE, 2021.
7. Patil, Mahesh, Satyadhyam Chickerur, Vijayalakshmi Bakale, Shantala Giraddi, Vivekanand Roodagi, and Yashaswini Kulkarni. "Deep hyperparameter transfer learning for diabetic retinopathy classification." *Turkish Journal of Electrical Engineering and Computer Sciences* 29, no. 8 (2021): 2824-2839.
8. Kumbargeri, Vasavi, Nitisha Sinha, and Satyadhyam Chickerur. "A quantum machine learning classifier model for diabetes." In *Innovative Data Communication Technologies and Application: Proceedings of ICIDCA 2020*, pp. 603-613. Springer Singapore, 2021.
9. Giraddi, Shantala, Satyadhyam Chickerur, and Nirmala Annigeri. "Grading Retinopathy of Prematurity with Feedforward Network." In *Proceedings of the 11th International Conference on Soft Computing and Pattern Recognition (SoCPaR 2019) 11*, pp. 168-176. Springer International Publishing, 2021.
10. Nikita, P., and Satyadhyam Chickerur. "Design and Implementation of Edge Detection Algorithms Using FPGA." In *International Conference on Soft Computing and Pattern Recognition*, pp. 563-572. Cham: Springer International Publishing, 2021.
11. Karur Mudugal Mathad, Rajashekharaiyah, Abhishek Saurabh, Aditya Mishra, Sambhav Jain, Purushottam Kumar, Vardaan, and Satyadhyam Chickerur. "Transfer Learning Using Variational Quantum Circuit." In *International Advanced Computing Conference*, pp. 254-267. Cham: Springer International Publishing, 2021.

2020 (6)

1. Chickerur, Satyadhyan, and Avinash M. Hunashimore. "A Study on Detecting Stress using Facial Expressions, Emotions and Body Parameters." In *2020 12th International Conference on Computational Intelligence and Communication Networks (CICN)*, pp. 26-29. IEEE, 2020.
2. Bidari, Indira, Satyadhyan Chickerur, Rekha M. Talikoti, Smita S. Kapali, Sushmita Talawar, and Soumya Sangam. "Performance analysis of change detection algorithms on multispectral imagery." In *2020 12th International conference on computational intelligence and communication networks (CICN)*, pp. 81-86. IEEE, 2020.
3. Kurtakoti, Abhijit Uday, and Satyadhyan Chickerur. "Steady flow approximation using capsule neural networks." In *2020 IEEE Sixth International Conference on Multimedia Big Data (BigMM)*, pp. 257-261. IEEE, 2020.
4. Bidari, Indira, Satyadhyan Chickerur, Harivijay Ranmale, Sushmita Talawar, Harish Ramadurg, and Rekha Talikoti. "Hyperspectral imagery classification using deep learning." In *2020 Fourth World Conference on Smart Trends in Systems, Security and Sustainability (WorldS4)*, pp. 672-676. IEEE, 2020.
5. Bakale, Vijayalakshmi A., Yeshwanth Kumar VS, Vivekanand C. Roodagi, Yashaswini N. Kulkarni, Mahesh S. Patil, and Satyadhyan Chickerur. "Indoor navigation with deep reinforcement learning." In *2020 International Conference on Inventive Computation Technologies (ICICT)*, pp. 660-665. IEEE, 2020.
6. Kataraki, Kirankumar V., and Satyadhyan Chickerur. "A performance study of moving particle semi-implicit method for incompressible fluid flow on GPU." *International Journal of Distributed Systems and Technologies (IJ DST)* 11, no. 1 (2020): 83-94.