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Designation **: Assistant professor /ECE**

No. of journal Publications **: 18**

Area of Specialization **: Low power VLSI, Image Processing**

Journal Publications:

1. A Ahilan**, P Deepa**,"Design for built-in FPGA reliability via fine-grained 2-D error correction codes",Microelectronics Reliability 55 (9-10), 2108-2112, 2015.

2. **P Deepa**, Design of Energy Efficient approximate adders for high performance computing applications", International Journal of Applied Engineering Research 10 (10), 2015.

3. A Ahilan, **P Deepa**, "A reconfigurable virtual architecture for memory scrubbers (VAMS) for SRAM based FPGA's" , Int. J. Appl. Eng. Res 10 (10), 9643-9648, 2015

4. A Ahilan, **P Deepa**, "Improving lifetime of memory devices using evolutionary computing based error correction coding", Computational intelligence, cyber security and computational models, 237-245,2016.

5. A Appathurai, **P Deepa**, "Radiation induced multiple bit upset prediction and correction in memories using cost efficient CMC", Informacije MIDEM 46 (4), 257-266, 2017.

6. D Sangeetha, **P Deepa**," A low-cost and high-performance architecture for robust human detection using histogram of edge oriented gradients", Microprocessors and Microsystems 53, 106-119, 2017.

7. M Ragulganthi, **P Deepa**, "An Approach For Image Deblurring: Based On Sparse Representation And Regularized Filter", International Research Journal of Engineering and Technology (IRJET), Volume: 04 Issue: 3 | Mar -2017.

8. R Kala, **P Deepa**,"Adaptive hexagonal fuzzy hybrid filter for Rician noise removal in MRI images",Neural Computing and Applications 29 (8), 237-249,2018.

9. R Manoranjitham, **P Deepa**," Efficient invariant interest point detector using Bilateral-Harris corner detector for object recognition application" , Multimedia Tools and Applications 77 (8), 9365-9378, 2018

10. R Kishorekumar, **P Deepa**, "Automatic change detection using multiindex information map on high-resolution remote sensing images"Cluster Computing 21 (1), 39-49, 2018.

11. A Gorantla, **P Deepa**," Design of Approximate Subtractors and Dividers for Error Tolerant Image Processing Applications",Journal of Electronic Testing 35 (6), 901-907,2019.

12. R Kala, **P Deepa**," Adaptive fuzzy hexagonal bilateral filter for brain MRI denoising"

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14. R Kishorekumar, **P Deepa**," A framework for semantic image annotation using LEGION algorithm", The Journal of Supercomputing 76 (6), 4169-4183, 2020.

15. S Jothi Lakshmi, **P Deepa**, "Image SR-based NLM and DCNN improved IBP with cubic B-spline" The Imaging Science Journal, 1-12, 2020.

16. I Nair, **P Deepa**, "Isolation enhanced MIMO antenna for software defined networking (SDN) adapted ultrawide band (UBW) radio tech applications", Microprocessors and Microsystems 73, 102965, 2020.

17. R Kala, **P Deepa**, "Analysis of Rician Noise Restoration Using Fuzzy Membership Function with Median and Trilateral Filter in MRI",Advances in Electrical and Computer Technologies, 803-816, 2020.

18. G Anusha, **P Deepa**, "Design of approximate adders and multipliers for error tolerant image processing", Microprocessors and Microsystems 72, 102940, 2020.

Conference publications:

1. A Ahilan, **P Deepa**, "Modified Decimal Matrix Codes in FPGA configuration memory for multiple bit upsets", Modified Decimal Matrix Codes in FPGA configuration memory for multiple bit upsets,1-5,2015.

2. A Appathurai, **P Deepa**," Design for reliablity: A novel counter matrix code for FPGA based quality applications" 6th Asia Symposium on Quality Electronic Design (ASQED), 56-61, 2015.

3. D Sangeetha, **P Deepa**, "An efficient hardware implementation of canny edge detection algorithm", 2016 29th International Conference on VLSI Design and 2016 15th International Conference on Embedded Systems (VLSID),IEEE, 457-462, 2016.

4. R Kala, **P Deepa**," Removal of rician noise in MRI images using bilateral filter by fuzzy trapezoidal membership function", 017 4th International Conference on Advanced Computing and Communication Systems (ICACCS),IEEE,1-6, 2017

5. R Manoranjitham, **P Deepa**," Novel interest point detector using bilateral-Harris corner method", 2017 4th International Conference on Advanced Computing and Communication Systems (ICACCS),IEEE,1-4, 2017.

6. D Sangeetha, **P Deepa**, "Efficient scale invariant human detection using histogram of oriented gradients for IoT services", 30th International Conference on VLSI Design and 2017 16th International Conference on Embedded Systems (VLSID),IEEE, 61-66, 2017.

7. R Kala, **P Deepa**, "Intuitionistic Fuzzy C-Means Clustering Using Rough set for MRI Segmentation", 2018 International Conference on Current Trends towards Converging Technologies (ICCTCT),IEEE, 1-9,2018.