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Research Papers Published in Journals

1. G.Gifta Jerith, P.Nirmal Kumar, "Recognition of Glaucoma by means of gray wolf optimized neural network", Multimedia Tools and Applications published by SPRINGER. Vol. 79, Issue 15, pp. 10341-10361(2020)
2. K Sakthi, P.Nirmal Kumar, "Efficient soft error resiliency by multi-match packet classification using scalable TCAM implementation in FPGA", Microprocessors and Microsystems, published by Elsevier Vol. 74, Issue, pp. 102985 (2020).
3. K Sakthi, P.Nirmal Kumar, " Reconfigurable parallelized TCAM architecture based on enhanced static memory cell", Microprocessors and Microsystems, published by Elsevier Vol. 76, Issue , pp. 103073 (2020).
4. R.Uma Maheswari, M.Ramya Princess and P.Nirmal Kumar, "Improved Whale Optimized MLP Neural Network-Based Learning Mechanism for Multiuser Detection in MIMO Communication System", Journal of Circuits, Systems and Computers, pp. 2050239 (2020).
5. MN Velammal, P.Nirmal Kumar , "A speech recognizer a tool to recognize the high clarity speech signal based on existing speech using ISCA", Analog Integrated Circuits and Signal Processing published by SPRINGER. Vol. 98, Issue 1, pp. 41-44 (2019).
6. J Varalakshmi, Deepa Jose, and P.Nirmal Kumar, " FPGA Implementation of Haze Removal Technique Based on Dark Channel Prior", International Conference On Computational Vision and Bio Inspired Computing, published by SPRINGER,pp. 624-630 (2019).

7. Neelam Sanjeev Kumar, P Nirmalkumar, "An Intelligent Decision-Support System for Telemedicine", Applied Mathematics & Information Sciences, published by 991. Vol. 5, Issue 12, pp. 981 (2018).
8. H.Kareemullah, N.Janakiraman and P.Nirmal Kumar, "Massively Parallel ECoG Signal Processing using MPSoC for Real-time Brain-Computer Interface", Asian Journal of Research in Social Sciences and Humanities, Vol. 7, Issue 3, pp. 1017-1032 (2017).
9. Deepa Jose, A.Noufal Chithara, P.Nirmal Kumar and H.Kareemulla, "Automatic Detection of Lung Cancer Nodules in Computerized Tomography Images", National Academy Science Letters-India, published by SPRINGER. Vol. 40, Issue 3, pp. 161-166 (2017).
10. R.UmaMaheswari and P.Nirmal Kumar, "An FPGA Implementation of Finite State Machine based 2-step inter leaver for 3G-LTE turbo codes", Journal of computational and theoretical nano science, Vol. 14, Issue 3, pp. 1288-1293 (2017).
11. N.Janakiraman, P.Nirmal Kumar, S.Rajeswari, C.Kumar Charlie Paul and S.Babu, "Dynamic Resource Allocation Scheme for MIMO-OFDMA Multicast System", National Academy of Sciences, India Section A: Physical Sciences, Vol. 86, Issue 2, pp. 187-199 (2016).
12. N.Janakiraman and P.Nirmal Kumar, " An experimental study of coarse grained reconfigurable system-on-chip based software defined radio", Turkish Journal of Electrical Engineering & Computer Sciences, Vol. 24, Issue 3, pp. 1176-1193 (2016).
13. R.Kalaivani, Deepa Jose and P.Nirmal Kumar, "An Area Efficient FFT Implementation for OFDM", International Journal of Advanced Research in Biology Engineering Science and Technology , Vol. 2, Issue 14, (2016).
14. Deepa Jose, P.Suganya and P.Nirmal Kumar, "Content Addressable Memory Using Automatic Charge Balancing with Self-Control Mechanism and Master-Slave Match Line Design", Circuits and Systems, Vol. 7, Issue 6, pp. 597-611 (2016).

15. Neenu Joseph and P.Nirmal Kumar, "Peak power and Crest Factor Reduction in OFDM Transceiver using Filtering method for SDR Application", National Academy Science Letters, Vol. 38, Issue 6, pp. 483-488 (2015).
16. Neenu Joseph and P.Nirmal Kumar, "Realization of OFDM Transceiver system and PAPR Reduction Using Walsh Hadamard transform", International Journal of Applied Engineering and Research, Vol. 10, Issue 2, pp. 3391-3398 (2015).
17. P.Ezhilarasi and P.Nirmal Kumar, "Algorithmic based VLSI architecture of Integrated Image Compression for CMOS Image Sensor", National Academy Science Letters, published by Springer. Vol. 38, Issue 1, pp. 49-59 (2015).
18. N.Janakiraman, P.Nirmal Kumar and Syed Mohsin Akram, "Coarse grained ADRES based MIMO-OFDM transceiver with new Radix-25 pipeline FFT/IFFT processor", Circuits, Systems & Signal Processing, published by SPRINGER. Vol. 34, Issue 3, pp. 851-873 (2015).
19. Neenu Joseph and P.Nirmal Kumar, "FPGA Based realisation of SDR with OFDM Transceiver", Defense Science Journal, Vol. 65, Issue 3, pp. 233-239 (2015).