

**Dr. G.Lakshmi Narayanan - List of Publications (Last 5 years):**

1. Nithish Kumar Venkatachalam ; Lakshminarayanan Gopalakrishnan ; Mathini Sellathurai, "Low complexity and area efficient reconfigurable multimode interleaver address generator for multistandard radios", IET Computers & Digital Techniques, DOI: 10.1049/iet-cdt.2015.0070, Vol. 10, Issue 2, pp. 56-68, March 2016
2. Antony Xavier Glittas, Mathini Sellathurai, and G Lakshminarayanan, "A Normal I/O Order Radix-2 FFT Architecture to Process Twin Data Streams for MIMO" IEEE Trans. On VLSI , 2016 (10.1109/TVLSI.2015.2504391)
3. Antony Xavier Glittas, Mathini Sellathurai, and G Lakshminarayanan "Two-parallel Pipelined FFT Processors for Real-valued Signals" IET Circuits, Devices & Systems, Vol. 10, Issue 4, pp. 330-336, July 2016.
4. S, Lakshminarayanan. G, "Reconfigurable address generator for multi-standard interleaver", Microprocessors and Microsystems, Vol. 65, pp. 47-56, Mar. 2019.
5. S, Lakshmi Renuka M, Lakshminarayanan. G, Mathini Sellathurai, "Low-complex processing element architecture for successive cancellation decoder", Integration the VLSI Journal, Elsevier, 2019, DOI: 10.1016/j.vlsi.2019.01.005.
6. Aravindhan Alagarsamy, Lakshminarayanan Gopalakrishnan, Seok Bum-Ko, "KBMA: A Knowledge Based Multi-objective Application Mapping Approach for 3D NoC", IET Computers and Digital Techniques, 2019, DOI: 10.1049/iet-cdt.2018.5055.
7. A, Shalini S, Lakshminarayanan. G, "Cluster Based Application Mapping Strategy for 2D NoC", Journal of Procedia Technology, Elsevier Publications, Vol. 25, pp 505-512, Sep 2016, DOI:10.1016/j.protcy.2016.08.138
8. Shalini S, Aravindhan. A, Lakshminarayanan. G, "A Case Study on Cluster Based Power Aware Mapping Strategy for 2D NoC" ICTCAT Journal of Microelectronics, pp. 315-322, Vol. 2 (4), Jan 2017, DOI:10.21917/ijme.2017.0055
9. Meenu Anna George, Aravindhan. A, Lakshminarayanan. G, "Design of Five Port Priority Based Router with Port Selection Logic for NoC" ICTCAT Journal of Microelectronics, pp. 293-299, Vol.2 (4), Jan 2017, 10.21917/ijme.2017.0051
10. Ishwerya, P., V. Nithish Kumar, and G. Lakshminarayanan (2016), An efficient digital baseband encoder for short range wireless communication applications. International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT), pp. 2775-2779, 3-5 March 2016.
11. Aravindhan Alagarsamy, Lakshminarayanan G, " SAT: A New Application Mapping Method for Power Optimization in 2D-NoC", 20th International Symposium on VLSI Design and Test (VDATE), 24-27 May 2016.
12. Ishwerya, P., S. Geethu, and G. Lakshminarayanan (2016), Autocorrelation based spectrum sensing architecture on FPGA with dynamic offset compensation. 2016 IEEE Distributed Computing, VLSI, Electrical Circuits and Robotics (DISCOVER), pp. 153-157, 13-14 Aug. 2016.
13. Ishwerya, P., S. Geethu, and G. Lakshminarayanan, An efficient hybrid spectrum sensing architecture on FPGA. 2017 International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET), 22-24 March 2017.

14. Kartikeya Dubey, Marshal Raj, G. Lakshminarayanan, " QCA Code converters using Novel Fault and Area efficient Exclusive-OR gate", International Conference on Nanotechnology: Ideas, Innovations and Initiatives, Roorkee, Dec 2017.
15. Kartikeya Dubey, Marshal Raj, G. Lakshminarayanan, "Design Of Majority Logic Based Comparator", IEEE 9th International Conference on Computing Communication and Networking Technologies (ICCCNT), Bengaluru, July 2018.
16. Rejil Raj E P, Bibin Sam Paul, G Lakshmi Narayanan, "Simplified SIFT Histogram Of Oriented Gradients Bin Locator In FPGA," IEEE 9th International Conference on Computing, Communication and Networking Technologies (ICCCNT), Bengaluru, July 2018.
17. S, Lakshminarayanan. G, "Low-Complexity Successive Cancellation Decoder with Scan Chain", IEEE International Conference on Circuits and Systems in Digital Enterprise Technology (ICCSDET), Kerala, Dec 21 - 22, 2018.
18. R, Lakshminarayanan. G, "Design and defect analysis of novel NAND/NOR gate in Quantum-dot cellular automata", IEEE International Conference on Circuits and Systems in Digital Enterprise Technology (ICCSDET), Kerala, Dec 21 - 22, 2018.
19. Aravindhan Alagarsamy and Lakshminarayanan Gopalakrishnan, "MBA: A New Cluster Based Bandwidth and Power Aware Mapping for 2D NoC", IEEE International Conference on Circuits and Systems in Digital Enterprise Technology (ICCSDET), Kerala, Dec 21 - 22, 2018.