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LAST FIVE YEAR PUBLICATIONS

1. Jayaraj U Kidav, **N. M Sivamangai** , M. P Pillai , “Design of AWC core using DCD iterations for MVDR beamformer” in journal of Microprocessors and Microsystems – Elsevier, 2020, <https://doi.org/10.1016/j.micpro.2019.102969>. **(IF:1.049)(Scopus indexed)**.
2. Silpa P.A, **Sivamangai,N.M** “One step synthesis of graphene” in Inorganic and NanoMetal Chemistry journal – Taylor & Francis, 2019, DOI/10.1080/24701556.2019.1661470 **(IF:0.685) (Scopus indexed)**
3. Princy P, **Sivamangai,N.M** “An Efficient Wavelet Based Transient Current Test towards Detection of Data Retention Faults in SRAM” in Journal of Electronic Testing - Springer, 2019, DOI /10.1007/s10836-019-05819-7 **(IF:0.625) (Scopus indexed)**
4. P.A. Silpa, **N.M.Sivamangai**, “Review on Fabrication of Graphene Nanoholes”, in eJournal of Surface Science and Nanotechnology, Vol. 17, February 2019, DOI: 10.1380/ejsnt.2019.10. **(Scopus indexed)**
5. KIDAV Jayaraj , **Siva Mangai N M**, PERUMAL M. Pillai , “A parallel complex divider architecture based on DCD iterations for computing complex division in MVDR beamformer”in Journal of Systems Engineering and Electronics, Vol.29, N0.6, December 2018. **(IF:0.572)(Scopus indexed)**
6. U Kidav, **N. M Sivamangai** , M. P Pillai , Subash Raja M, “Architecture and FPGA Prototype of Cycle Stealing DMA array signal processor for ultrasound sector imaging”in journal of Microprocessors and Microsystems – Elsevier, 2018, DOI /10.1016/j.micpro.2018.10.005. **(IF:1.049)(Scopus indexed)**
7. **N. M. Siva Mangai**, P. Karthigaikumar, Shilu Tresa Vinod, D. Abraham Chandy, “FPGA implementation of elephant recognition in infrared images to reduce the computational time” in Journal of Ambient Intelligence and Humanized Computing – Springer, 2018, DOI /10.1007/s12652-018-0984-z. **(IF:1.423)(Scopus indexed)**
8. Silpa P.A, **Siva Mangai N.M.**, “Graphene and its derivatives for Nanoscale Semiconductor Memories – A Density Functional Theory Based Approach”, materials today: proceedings, Elsevier, 2018. **(Scopus indexed)**

9. L.Achsah Dorthy, **N.M. Siva Mangai**, A.Napolean, “Design and analysis of Dual Oxide TiO₂ based RRAM for High Frequency Applications” in IJEECS, Vol. 6, Issue 12, December 2017, ISSN 2348-117X.
10. Jayaraj U Kidav, **N.M Sivamangai**, Nidhi Antony, Dr. M.P Pillai, “Fixed and Floating point Array Signal Processor Architecture Implemented on FPGA and their performance comparisons”, International Journal of Electronics, Electrical and Computational System, ISSN 2348-117X, Volume-6, Issue 6, June 2017.
11. Jayaraj U Kidav, **N.M Sivamangai**, Prasad Menon, Fathima Nyla,” A Low cost and scalable research Platform for Validating Ultrasound Signal Processing Algorithms”, International Journal of Engineering Technology, Science and Research IJETSR , ISSN 2394-3386, Volume-4, Issue-6, June 2017.
12. S Sridevi Sathya Priya, P. Karthigaikumar, **N M Sivamangai** and V Rejula, “High throughput AES algorithm using parallel subbytes and mixcolumn”, in Wireless Personal Communications – Springer Science, 2016, DOI 10.1007/s11277-016-3858-8. **(IF:0.951)(Scopus indexed)**
13. **Sivamangai, N. M.**, S.Sridevi Sathya Priya, Karthigai Kumar, P. “An efficient Hardware Architecture for high throughput AES encryptor using MUX based Sub pipelined S-box”, in Wireless Personal Communications – Springer Science, 2016, DOI 10.1007/s11277- 016-3385-7. **(IF:0.951)(Scopus indexed).**
14. **Sivamangai, N. M.**, S.Sridevi Sathya Priya, Karthigai Kumar, P.”Efficient hardware implementation of AES algorithm using bio metric key”, in Int. J. Information and Communication Technology, Vol. 7, Nos. 4/5, 2015. **(scopus indexed).**
15. **Sivamangai, N. M.**, Karthigai Kumar, P. “PSO CO2: An efficient Hardware Architecture for AES algorithm for high throughput”, in Wireless Personal Communications – Springer Science, 2015, DOI 10.1007/s11277-015-2739-x. **(IF:0.951)(Citation index:4).**
16. **Sivamangai, N. M.**, Shilu Tresa Vinod, D. Abraham Chandy. “Recognition of Elephants in Infrared images using clustering based Image segmentation”, International Journal of Electronic Security and Digital Forensics – Inderscience, Vol 7, N0.3, 2015. **(scopus Indexed).**