

International Journals

1. Jabarullah, Noor Hafidzah, Ettikkan Geetha, Manoharan Arun, and Vera Vakhnina. "Design, analysis, and implementation of a new high step-up DC–DC converter with low input current ripple and ultra-high-voltage conversion ratio." *IET Power Electronics* (2020).
2. Surendar, A., M. Kavitha, M. Arun, and V. Panwar. "Reliability Assessment of Solder Joints in Electronic Devices Under Extreme Thermal Fluctuations." *IEEE Transactions on Components, Packaging and Manufacturing Technology* 10, no. 8 (2020): 1394-1400.
3. Siswanto, Waluyo Adi, M. Arun, Irina V. Krasnopevtseva, A. Surendar, and Andino Maselena. "A competition between stress triaxiality and joule heating on microstructure evolution and degradation of SnAgCu solder joints." *Journal of Manufacturing Processes* 54 (2020): 221-227.
4. Arun, M., et al. "Development of patient specific bio-polymer incisor teeth by 3D printing process: A case study." *Materials Today: Proceedings* (2020).
5. Jabarullah, Noor H., A. Surendar, M. Arun, Ahmed Faisal Siddiqi, and Tatyana O. Krasnopevtseva. "Microstructural characterization and unified reliability assessment of aged solder joints in a PV module." *IEEE Transactions on Components, Packaging and Manufacturing Technology* (2020).
6. Barua, Srikant, Hemprasad Patil, Parth Dharmeshkumar Desai, and Manoharan Arun. "Deep Learning-Based Smart Colored Fabric Defect Detection System." In *Applied Computer Vision and Image Processing*, pp. 212-219. Springer, Singapore, 2020.
7. Surendar, A., M. Arun, and A. Mahabub Basha. "FFcPsA: a fast finite conventional state using prefix pattern gene search algorithm for large sequence identification." *Soft Computing* 23.8 (2019): 2761-2771.
8. Jothi, R. Pushpa, C. Saravanakumar, and M. Arun. "Automatic Irrigation System using IoT." (2018).
9. Vardhana, T. Madhu, M. Kumaran, Ananda Reddy, N. Naveen, M. Arun, and R. N. Kagne. "Profile of fatal road traffic accidents at puducherry-an autopsy based study." *Indian Journal of Forensic Medicine & Toxicology* 12, no. 3 (2018): 31-36.
10. Kumar, N. Suresh, M. Arun, and Mukesh Kumar Dangi. "Remote sensing image retrieval using object-based, semantic classifier techniques." *International Journal of Information and Communication Technology* 13.1 (2018): 68-82.
11. Bhanuteja, S., S. Shilpi, K. Pragna, and M. Arun. "Smart security system for Indian rail wagons using IOT." *MS&E* 263, no. 5 (2017): 052024.
12. Mrunalini, Sirisha, and Arun Manoharan. "Dual-band re-configurable graphene-based patch antenna in terahertz band for wireless network-on-chip applications." *IET Microwaves, Antennas & Propagation* 11.14 (2017): 2104-2108.
13. Kumar, N. Suresh, Arun Kumar Sangaiah, M. Arun, and Sundararaman Anand, eds. *Advanced image processing techniques and applications*. IGI Global, 2017.
14. Kumar, N. Suresh, and M. Arun. "Genetic algorithm-based feature selection for classification of land cover changes using combined LANDSAT and ENVISAT images." *International Journal of Bio-Inspired Computation* 10.3 (2017): 172-187.
15. Surendar, A., M. Arun, and A. M. Basha. "Micro sequence identification of bioinformatics data using pattern mining techniques in FPGA hardware implementation." *Asian Journal of Information Technology* 15.1 (2016): 76-81.
16. Surendar, A., and M. Arun. "FPGA based multi-level architecture for next generation DNA sequencing." (2016).
17. Kumar, N. Suresh, and M. Arun. "Accuracy analysis of various classification algorithms for used land." *International Journal of Enterprise Network Management* 7.2 (2016): 113-132.
18. Surendar, A., M. Arun, and M. Kavitha. "A reconfigurable approach for Dnasequencing and Searching methods." *Asian Journal of Research in Social Sciences and Humanities* 6.4 (2016): 316-329.

19. Surendar, A., and M. Arun. "Efficient DNA sequence analysis for reduced gene selection using frequency analysis." *Journal of Chemical and Pharmaceutical Sciences* 9.4 (2016): 3367-3373.
20. Kumar, N. Suresh, and M. Arun. "Enhanced classification algorithms for the satellite image processing." *Indian Journal of Science and Technology* 8.15 (2015): 1-9.
21. Arun, M., S. MohamedAzarudeen, and T. N. Nivek. "AES based Text to Pixel Encryption using Color Code Conversion by Modulo Arithmetic." *International Journal of Recent Research in Science, Engineering and Technology* 1.3 (2015): 37-42.
22. Kumar, N. Suresh, and M. Arun. "Monitoring and predicting changes of surface mining area using image analysis of the timeseries images." *Indian Journal of Science and Technology* 8 (2015): 15.
23. Arun, M., A. Anudeep Kumar Reddy, and V. Thulasiram. "Optimal resource allocation and power management for mobile-to-mobile communication in cellular network." *Indian Journal of Science and Technology* 8.S2 (2015): 235-241.
24. Achar, Rakesh Kumar, M. Swagath Babu, and M. Arun. "Border gateway protocol performance and its protection against disturbed denial of service attack." *Indian Journal of Science and Technology* 8.S2 (2015): 127-132.

International conference papers

1. Singh, Srishti, Amrit Paul, and M. Arun. "Parallelization of digit recognition system using deep convolutional neural network on CUDA." *2017 Third International Conference on Sensing, Signal Processing and Security (ICSSS)*. IEEE, 2017.
2. Arun, M. "Comparative analysis of parallelised shortest path algorithms using Open MP." *2017 Third International Conference on Sensing, Signal Processing and Security (ICSSS)*. IEEE, 2017.
3. Mrunalini, LN Sirisha, and M. Arun. "Novel dual polarized graphene based antenna for wireless communications in THz band." *2016 3rd International Conference on Emerging Electronics (ICEE)*. IEEE, 2016.