

LIST OF PUBLICATIONS

1. K. Shanthi, Ajith. B. Singh and V. Bhanumathi, "Propellant Mixing and Loading in Pyrotechs using Virtual Instrumentation", International Journal of Control Theory and Applications, International Science Press – Serial publications Vol. 10, No. 2, Feb 2017, pp. 407-415, ISSN : 0974-5572. (Scopus)
2. V.Bhanumathi and C.P.Sangeetha, "A Guide for the Selection of Routing Protocols in WBAN for Healthcare Applications", International Journal of Human-centric Computing and Information Sciences, Vol.7, No.24, August 2017. pp.1-19. ISSN: 2192-1962. (SCIE – 3.700)
3. S.R.Barkunan and V.Bhanumathi, "An Efficient Deployment of Sensor Nodes in Wireless Sensor Networks for Agricultural Field", Journal of Information Science and Engineering, Vol.34, No.4, July 2018, pp. 903-918. ISSN: 1016-2364. (SCIE – 0.541)
4. Kalaivanan K Bhanumathi V, "Reliable location aware and Cluster-Tap Root based data collection protocol for large scale wireless sensor networks", Journal of Network and Computer Applications, Vol.118, 15th Sep 2018, pp. 83-101. ISSN : 1084-8045 (SCIE – 5.570).
5. S.R.Barkunan, V.Bhanumathi and J.Sethuram, "Smart Sensor for Automatic Drip Irrigation System for Paddy Cultivation", Computers & Electrical Engineering, Vol.73, January 2019, pp.180-193 . ISSN: 0045-7906. (SCIE – 2.663)
6. V.Bhanumathi and S.Swathi, "Bandwidth Enhanced Microstrip Patch Antenna for UWB Applications", ICTACT Journal on Microelectronics, Vol.4, No.4, Jan 2019, pp.669-75. ISSN: 2395-1680 (ONLINE)
7. K. Kalaivanan and V.Bhanumathi, "Unmanned Aerial Vehicle based Reliable and Energy Efficient Data Collection from Red Alerted Area using Wireless

Sensor Networks with IoT”, Journal of Information Science and Engineering, Vol. 35, No.3, May 2019, pp. 521-536 ISSN: 1016-2364. (SCIE – 0.541)

8. R. Vishnuvarthan, R. Sakthivel, V. Bhanumathi, K. Muralitharan, “Energy-Efficient Data Collection in Strip-based Wireless Sensor Networks with Optimal Speed Mobile Data Collectors”, Computer Networks Elsevier, vol.156, pp. 33-40, June 2019, ISSN: 1389-1286 (SCIE – 3.111)
9. V. Bhanumathi and G. Sivaranjani, “High Isolation MIMO Antenna Using Semi-circle Patch for UWB Applications”, Progress in Electromagnetic Research C (PIER C) Journal, Vol. 92, pp.31-40, June 2019, ISSN 1937-8718 (Scopus – 1.01).
10. C.P.Sangeetha and V.Bhanumathi, “Fuzzy-based Dynamic Time Slot Allocation for Wireless Body Area Networks”, MDPI Sensors, Vol.19. No.9 , pp.1-20, May 2019, ISSN 1424-8220, (SCIE – 3.275)
11. V.Bhanumathi and C.P.Sangeetha, “A Review on Swarm Intelligence Based Routing Approaches, International Journal of Engineering and Technology Innovation (IJETI), Vol.9, No.3, July 2019, pp. 182-195, ISSN Print 2223-5329, ISSN Online 2226-809X. (Scopus).
12. V.Bhanumathi and C.P.Sangeetha, “An Enhanced Channel Access Method to Mitigate the Effect of Interference among Body Sensor Networks for Smart Healthcare”, IEEE Sensors, Vol.19, no.16, pp.7082-7088, August 2019, P-ISSN 1530-437X, e-ISSN 1558-1748, (IEEE Sensors Council – 3.076).
13. V.Bhanumathi and M.Sunandini, “VLSI Architecture for Error Detection and Correction based on XOR against Multiple Cell Upsets with Reduced Redundant Bits” ICTACT Journal on Microelectronics, Vol.5, No.2, July 2019, pp.751-757. ISSN: 2395-1680 (ONLINE)
14. K. Kalaivanan and V.Bhanumathi, “An Efficient Distributed Clustering and Gradient based Routing Protocol for Wireless Sensor Networks”, Journal of

Information Science and Engineering, Vol. 35, No. 5, Sep 2019, pp.1133-1146.
ISSN: 1016-2364. (SCIE – 0.541)

- 15.K. Kalaivanan and V.Bhanumathi, “Cluster Switched Data Gathering Protocol for Mobile Wireless Sensor Networks”, IET Communications, Vol.13 No.18 pp. 2973-2985, November 2019, Print ISSN 1751-8628, Online ISSN 1751-8636 (SCIE – 2.100)
- 16.S.M. Swamynathan and V.Bhanumathi, “Stability enhancing SRAM cell for low power LUT design”, Microelectronics Journal, Vol.96, pp.1-8, February 2020, ISSN 0026-2692. (SCIE – 1.480).
- 17.K. Kalaivanan and V.Bhanumathi, “Energy efficient Cluster and Travelling Salesman Problem based Data Collection using WSNs for Intelligent Water Irrigation and Fertigation”, Measurement, Vol.161, PP. 1-16, April 2020 ISSN : 0263-2241. (SCIE – 3.364),
- 18.S SharmilaDevi, V Bhanumathi , “Design Of Reversible Logic Based Full Adder In Current-Mode Logic Circuits, Vol. 76, pp. Microprocessors and Microsystems, July 2020 (SCIE – 1.161)
- 19.S.R.Barkunan, V.Bhanumathi and V. Balakrishnan, “Automatic Irrigation System with Rain Fall Detection in Agricultural Field”, Measurement, Vol.156, May 2020, pp.. (SCIE – 3.364)
- 20.S.M Swamynathan, V Bhanumathi, “Efficient Hardware Trojan Diagnosis in SRAM Based on FPGA Processors using Inject Detect Masking Algorithm for Multimedia Signal Processors” Vol. 77, pp. Microprocessors and Microsystems, September 2020 ISSN : 01419331 (SCIE – 1.161)
- 21.K. Kalaivanan and V.Bhanumathi, “Cluster-Tree based Energy Efficient Data Gathering Protocol for Industrial Automation using WSNs and IoT, Journal of Industrial Information Integration, Vol. 19, September 2020, pp. 1-11. (SCIE – 10.615)
- 22.V.Bhanumathi and C.P.Sangeetha, “QoS-Aware Minimum Cost Routing Algorithm for Wireless Body Area Networks “, Ad Hoc and Wireless Sensor

Networks, Vol. 47, No.1, pp. 1-18, Nov 2020. ISSN: 1551-9899 (print) ISSN:
1552-0633 (online) (SCIE – 0.968)