

Dr. Suman Pattnaik

PUBLICATIONS

1. Jain C., Dhaliwal BS., Singh R., Pattnaik S. On 3D Printed Flexible and Wearable Sensors from Primary Recycled PVDF. *National Academy Science Letters*. 47(2), 157-160 (2024). **(SCI)**
2. Jain C., Dhaliwal BS., Singh R., Pattnaik S. On Comparison of 3D-Printed ABS and PVDF Based Sensors for Body-Centric Utility. *Arabian Journal for Science and Engineering* 48(9), 12645-12655 (2023). **(SCI)**
3. Jain V., Dhaliwal BS., Kumar A., Pattnaik S. Experimental Investigations on the Effect of Textile Substrate Nanomaterial Coating on Wearable Antenna Performance. *National Academy Science Letters* 46(2), 251-255 (2023). **(SCI)**
4. Pattnaik, S., Dhaliwal, B.S. & Pattnaik, S.S. Mobile Phone Radiations Effect on the Synchronization Between Heart and Brain. *Wireless Pers Commun* 124, 3205–3234 (2022). <https://doi.org/10.1007/s11277-022-09509-0>. **(SCI)**
5. Amritpal Kaur, Balwinder S Dhaliwal, Suman Pattnaik. Design of Hybrid Fractal Boundary Antenna for RF Energy Harvesting Applications. *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, vol. 8; issue9S, 411-413, 2019. Blue Eyes intelligence Engineering & Sciences Publication. **(SCOPUS)**
6. Suman Pattnaik, Balwinder Singh Dhaliwal, S S Pattnaik. Impact Analysis of Mobile Phone Electromagnetic Radiations on Human Electroencephalogram. *Sadhana*, 44:134, 1-12, 2019. <https://doi.org/10.1007/s12046-019-1116-y> *Sadhana*. **(SCI)**
7. Suman Pattnaik, Shyam Sundar Pattnaik, Balwinder Singh Dhaliwal. Modeling of Circular Fractal Antenna using BFO-PSO based Selective ANN Ensemble. *International Journal of Numerical Modeling: Electronic Networks, Devices and Fields*, 32, 1-12, 2018. <https://doi.org/10.1002/jnm.2549>. **(SCI)**
8. Suman etal, “A Lossless Color Image Compression Using an Improved Reversible Color Transform with Hierarchical Prediction and Modified Huffman Coding”, *International Journal of Research in Engineering and Technology*, Vol 4, Issue 5, May 2015.
9. Suman etal, “A Lossless Color Image Compression Using an Improved Reversible Color Transform with Hierarchical Prediction and Modified Huffman Coding”,

International Journal of Research in Engineering and Technology, Vol 4, Issue 5, May 2015.

10. Suman etal. “Opnet Based Simulation for Route Distribution in EIGRP, BGP and OSPF Network Protocol”, International Organization of Scientific Research Community of Researcher Journals, Vol.9, Issue 1, January 2014.
11. Suman etal., “Fast Fault Tolerance Mechanism in Border Gateway Protocol”, International Journal of Advanced and Innovative Research, Vol.2, Issue 12, December 2013.
12. Mohan C., Suman and Kumar A., 2013. “Heterogeneous Fuzzy Based Clustering Protocol (HFCP)”, *IEEE 2nd International Conference on Image Information Processing (ICIIP-2013)*, pp. 601-606, Dec 2013. **Paper published in IEEE Xplore**.
13. Sukhmeet Kaur, Suman, Manpreet Singh Manna, Rajeev Agarwal, “Implementation of Modified booth algorithm (radix 4) and its comparison with booth algorithm (radix-2)”, *Global Conference on Recent Trends in Electronic Communication Engineering, Power and Control*” (ECEPC-2013), pp. Sept. 2013.
14. Sharma M., Suman and Mohan C., 2013. “A Novel 5-DWT Based Method for Digital Video Watermarking”, *International Journal of Enhanced Research in Science Technology & Engineering*, Vol. 2, Issue 8, pp. 72-77, 2013.
15. Sukhmeet Kaur, Suman, Manpreet Singh Manna, Rajeev Agarwal,” VHDL Implementation of Non-Restoring Division Algorithm Using High Speed Adder/Subtractor”, *International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering*, Vol. 2, Issue 7, July 2013.
16. Dhaliwal, B.S.; Kaur, A.; Pattnaik, S.; Pattnaik, S.S., “Optimization of hybrid fractal antenna using curve fitting and GA approach for RF energy harvesting application”, *IEEE Indian Conference on Antennas and Propagation, InCAP 2019*, <http://www.scopus.com/inward/record.url?eid=2-s2.0-85088475489&partnerID=MN8TOARS>.
17. Mohan C., Suman and Kumar A., “Fuzzy based Energy Efficient Clustering Protocols for WSN Systems: A Survey”, *Proceeding of International Journal of Computer Applications (0975 – 8887)*, *National Conference on Structuring Innovation through Quality “SITQ-2013*, pp. 8-11, 19-20 March 2013. **Won Best Paper Award**.
18. S.S.Pattnaik, Arvind Chauhan, Suman, “Sustainable Blended Learning in Higher Education”, *National Conference on ICT-2012*, pp. 381-383 March 15-16, 2012.

19. Suman, Swapna Devi and Malay Dutta, “Optimized Noise Canceller for ECG Signals”, *International Journal of Computer Applications (IJCA) ICISD (ISBN: 978-93-80749-02-6)*, Volume 1, pp. 10-17, April 2011.
20. Swapna Devi, Suman, Malay Dutta, “Denoising of ECG Signals Using Modified Memetic Algorithm”, *International Conference on Intelligent Systems and Data Processing (ICISD 2011)*, pp. 105-110, 24-25 January 2011. - **Won Best Paper Award.**
21. Suman; Swapna Devi, “Modified Memetic Algorithm for the Removal of Power Line Interference in ECG Signals”, *4th IEEE Conference on Advanced Computing and Communication Technologies (ICACCT 2010)*, pp. 754-759, 30 October 2010.
22. Suman; Swapna Devi, “Removal of Power Line Interference in ECG Signals Using EMD and Genetic Algorithm” *National Conference on Advances in Video, Cyber Learning and Electronics, ADVICE 2010, 18-19 February 2010, Page(s): 136-143.*