

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”,

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10. Suman et al. "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 et al., "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.*