

Publications:

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1. Josephine Agaliya, A., Mary Neebha, T., Nesasudha, M., "Efficient wearable antenna design by patch area extension for body area network applications", in the International Conference on Communication and Signal Processing, ICCSP 2016, held at Adiparasakthi engineering college, melmaruvathur, during 6-8 April, 2016.
2. Nesasudha M and Benita S, "Design of antenna in Wireless Body Area Network (WBAN) for biotelemetry applications", in Intelligent Decision technologies; 2016; 10, pp: 365-371.
3. Ajay V P and Nesasudha M, "Progression in the concepts of cognitive sense wireless networks – An analysis report", in the IEEE International Conference on Recent Advances in Aerospace Engineering, held at Karunya University, Coimbatore during March 3-4, 2017.
4. Mary Neebha T and Nesasudha M, "Artificial Neural Network based design of a microstrip patch antenna for RADAR applications", in the IEEE International Conference on Recent Advances in Aerospace Engineering, held at Karunya University, Coimbatore during March 3-4, 2017.
5. Rekha S and Nesasudha M, "Rear end planar slot antenna of a substrate integrated waveguide cavity fed by grounded coplanar waveguide", in the IEEE International Conference on Recent Advances in Aerospace Engineering, held at Karunya University, Coimbatore during March 3-4, 2017.
6. Gayathri R, Mary Neebha and Nesasudha M, "Design and Analysis of Highly Directive spiral patch antenna for on-body application" in the proceedings of International Conference on Signal Processing and Communication, held at Karunya University, Coimbatore during July 28-29, 2017.
7. VP Ajay, Dr. M. Nesasudha, "Progression in the concepts of cognitive sense wireless networks – An analysis report", IoP conference Series: Materials Science and Engineering, 247 (2017) 012004 ISSN : 1757-899X doi:10.1088/1757-899X/247/1/012004
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9. T. Mary Neebha, M. Nesasudha, "Optimized Design of a Microstrip Patch Antenna for Radar Applications", International Journal of Vehicle Structures and Systems, ISSN: 0975-3060, DOI: 10.4273
10. S. Rekha, M. Nesasudha, "Design of circularly polarized planar monopole antenna with improved axial ratio bandwidth", Microwave and optical technology letters, (Wiley online), Vol no:59, Issue :9, pp:2353 - 2358, IF: 0.948
11. B. Anitha Vijayalakshmi, M. Nesasudha, "Outlook on multicarrier modulation techniques worn in intensity modulation and direct detection under dimming", Journal of Advanced research in dynamical and control systems, Vol.10, 07 special issue 2018, pp:445-453

12. T. Mary Neebha, M. Nesasudha, "Analysis of an ultra miniature capsule antenna for gastro intestinal endoscopy", Engineering science and technology, An international journal, <https://doi.org/10.1016/j.jestch.2018.06.017>
13. S Rekha and M Nesasudha, Substrate integrated waveguide slot antenna with shorting vias for broadband applications, International Journal of RF and Microwave computer-aided engineering, DOI: 10.1002/mmce.21565, IF=1.306.
14. Doondi Kumar Janapala and M Nesasudha, A compact ultra wide band bandpass filter with dual band notch designed based on composite right/left- handed transmission line unit cell, International Journal of RF and Microwave computer-aided engineering, DOI: 10.1002/mmce.21569, IF=1.306.
15. Doondi Kumar Janapala, M Nesasudha, T Mary Neebha and Raj Kumar, Specific Absorption Rate reduction using metasurface unit cell for flexible polydimethylsiloxane antenna for 2.4 GHz wearable applications, International Journal of RF and microwave computer-aided engineering, DOI: 10.1002/mmce.21835, IF=1.306.
16. T Mary Neebha, M.Nesasudha and Evangelin Chrysolite, presented a paper titled "Computational modelling and parametric analysis of an implantable patch antenna using finite-difference time-domain algorithm" in the Proceedings of 2nd International Conference on Smart Computing & Informatics (Springer), 27-28 January, 2018. Prasad V Potluri Siddhartha Institute of Technology, Andhra Pradesh.
17. DK Janapala, M Nesasudha, TM Neebha "SAR Analysis of UWB Antennas for Wireless Body Area Network Applications" Body Area Network Challenges and Solutions, 105-129.
18. K Nikhil, ISP Kalyan, J Sagar, MS Rohit, M Nesasudha "Li-Fi Based Smart Indoor Navigation System for Visually Impaired People" 2019 2nd International Conference on Signal Processing and Communication (ICSPPC).
19. R. Sam, A. Hazra and M. Nesasudha, "Design and Development of Textile Antenna for RFID Applications," 2019 2nd International Conference on Signal Processing and Communication (ICSPPC), Coimbatore, India, 2019, pp. 178-181, doi: 10.1109/ICSPPC46172.2019.8976609.
20. A. B. Raj and M. Nesasudha, "Fractal Based Miniaturized Antenna for Wireless Body Area Network," 2019 2nd International Conference on Signal Processing and Communication (ICSPPC), Coimbatore, India, 2019, pp. 193-197, doi: 10.1109/ICSPPC46172.2019.8976866.
21. D. K. Janapala, M. Nesasudha, T. M. Neebha and R. Kumar, "Flexible PDMS Antenna Backed with Metasurface for 2.4GHz Wearable Applications," 2019 IEEE 1st International Conference on Energy, Systems and Information Processing (ICESIP), Chennai, India, 2019, pp. 1-3, doi: 10.1109/ICESIP46348.2019.8938235.

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23. Janapala D.K., Nesasudha M., Tensing S.P. (2020) Compact Yagi–Uda-Shaped Patch Antenna for 5 GHz WLAN Applications. In: Goel N., Hasan S., Kalaichelvi V. (eds) *Modelling, Simulation and Intelligent Computing. MoSICom 2020. Lecture Notes in Electrical Engineering*, vol 659. Springer, Singapore. https://doi.org/10.1007/978-981-15-4775-1_21
24. Vijayalakshmi, B. Anitha, and M. Nesasudha. "Flicker mitigation in dimmed LEDs installed indoors using vDSM digital dimming technique under visible light communication." *Optical and Quantum Electronics* 52, no. 2 (2020): 77.
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26. Vijayalakshmi, B. Anitha, and M. Nesasudha. "Transferring patient's biomedical information using illumination and communication technology under dim lighting in hospitals." *Optical and Quantum Electronics* 52.4 (2020).
27. V.P. Ajay, M. Nesasudha, Efficient energy harvesting scheme with power optimization strategies over cognitive radio networks, *Materials Today: Proceedings*, 2020, ISSN 2214-7853, <https://doi.org/10.1016/j.matpr.2020.06.244>.
28. Janapala D.K., Nesasudha M. (2021) Flexible Dielectric Resonator Antenna Using Polydimethylsiloxane Substrate as Dielectric Resonator for Breast Cancer Diagnostics. In: Gupta D., Khanna A., Bhattacharyya S., Hassanien A., Anand S., Jaiswal A. (eds) *International Conference on Innovative Computing and Communications. Advances in Intelligent Systems and Computing*, vol 1166. Springer, Singapore. https://doi.org/10.1007/978-981-15-5148-2_5
29. Vijayalakshmi, B.A., Nesasudha, M. Li-Fi delivering broad band and multimedia content under dimming in train. *Opt Quant Electron* **52**, 518 (2020). <https://doi.org/10.1007/s11082-020-02652-7>