

Conference Publications

1. **R.K. Badhai** and N. Gupta, "Design of Wideband Inverted Sinc Shaped Monopole Antenna," *Communication Systems and Network Technologies (CSNT), 2014 Fourth International Conference on*, IEEE, pp.34,37, 7-9 April 2014. DOI: <https://doi.org/10.1109/CSNT.2014.16>
2. S. K. Ghosh and **R. K. Badhai**, "Printed monopole antenna for UWB and SWB with directional radiation characteristics and high F/B ratio," 2016 International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET), Chennai, India, 2016, pp. 1590-1594. doi: <https://doi.org/10.1109/WiSPNET.2016.7566405>
3. N. Kumar, K. K. Singh and **R. K. Badhai**, "A tapered feed circular monopole super ultra-wideband (UWB) printed antenna," 2016 International Conference on Communication and Signal Processing (ICCSP), Melmaruvathur, Tamilnadu, India, 2016, pp. 1943-1946. doi: <https://doi.org/10.1109/ICCSP.2016.7754510>
4. A. Kumar and **R.K. Badhai**, "A Dual-band On-Body Printed Monopole Antenna for Body Area Network," IEEE International Conference on Inventive Systems and Control (ICISC 2017), Coimbatore, Tamil Nadu, INDIA. DOI: <https://doi.org/10.1109/ICISC.2017.8068696>
5. S.K. Ghosh and **R.K. Badhai**, "Design of a novel antipodal vivaldi antenna with further modifications for notch characteristics," IEEE International Conference on Inventive Systems and Control (ICISC 2017), Coimbatore, Tamil Nadu, INDIA. DOI: <https://doi.org/10.1109/ICISC.2017.8068681>
6. S.K. Ghosh and **R.K. Badhai**, "An Aperture Antenna for Bluetooth, WLAN, WiMax, ZigBee and LTE Applications," IEEE International Conference on Inventive Systems and Control (ICISC 2017), Coimbatore, Tamil Nadu, INDIA. DOI: <https://doi.org/10.1109/ICISC.2017.8068701>
7. A. Kumari and **R.K. Badhai**, "A Triple-Band High-Gain Base-Station Antenna for WLAN and Wi-MAX Applications," IEEE International Conference on Inventive Systems and Control (ICISC 2017), Coimbatore, Tamil Nadu, INDIA. Doi: <https://doi.org/10.1109/ICISC.2017.8068712>
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9. A. Kumar, A. Utsav and **R. K. Badhai**, "A novel copper-tape wideband wearable textile antenna for WBAN applications," 2017 IEEE Applied Electromagnetics Conference (AEMC), Aurangabad, 2017, pp. 1-3. doi: <https://doi.org/10.1109/AEMC.2017.8325660>
10. A. Utsav, A. Kumar and **R. K. Badhai**, "A WLAN notched wideband monopole antenna for ultra wideband communication applications," 2017 IEEE Applied Electromagnetics Conference (AEMC), Aurangabad, 2017, pp. 1-3. doi: <https://doi.org/10.1109/AEMC.2017.8325728>
11. A. Kumari, **R. K. Badhai** and P. Suraj, "A Compact Polygon Shape Ultra Wideband Antenna for Portable Devices," 2018 International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET), Chennai, 2018, pp. 1-4. <https://doi.org/10.1109/WiSPNET.2018.8538728>

12. S. Kumar, P. Suraj and R. K. Badhai, "Triple-band Compact Monopole Antenna Using Defected Ground Plane," 2018 International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET), Chennai, 2018, pp. 1-4. <https://doi.org/10.1109/WiSPNET.2018.8538624>
13. A. Utsav, A. Kumar, R. K. Badhai and P. Suraj, "A Dual Band on Body Monopole Antenna for WiMAX and X-Band Applications," 2018 3rd International Conference for Convergence in Technology (I2CT), Pune, 2018, pp. 1-5. <https://doi.org/10.1109/I2CT.2018.8529681>
14. A. Abhishek, R. K. Badhai and P. Suraj, "Design of Beam Steering Antenna for ISM Band III using Branch Line Coupler," 2019 International Conference on Wireless Communications Signal Processing and Networking (WiSPNET), Chennai, India, 2019, pp. 369-372, doi: <https://doi.org/10.1109/WiSPNET45539.2019.9032846>
15. A. Abhishek, A. Utsav, R. K. Badhai and P. Suraj, "Design of Beam Steering Antenna for ISM Band III Using Corporate Feed Network," 2019 International Conference on Communication and Electronics Systems (ICCES), Coimbatore, India, 2019, pp. 1468-1472, doi: <https://doi.org/10.1109/ICCES45898.2019.9002206>.
16. Z. Zeya, R. K. Badhai and P. Suraj, "Printed Antenna Design for LTE Mobile Applications," 2019 International Conference on Wireless Communications Signal Processing and Networking (WiSPNET), Chennai, India, 2019, pp. 383-387, doi: <https://doi.org/10.1109/WiSPNET45539.2019.9032782>.
17. R. Khatoon, P. Suraj, R. K. Badhai and V. Mishra, "A Compact Tapered Fed Dodecagon MIMO Antenna for UWB Applications," 2019 International Conference on Wireless Communications Signal Processing and Networking (WiSPNET), Chennai, India, 2019, pp. 421-424, doi: <https://doi.org/10.1109/WiSPNET45539.2019.9032789>.
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19. A. Abhishek, Z. Zeya, P. Suraj and R. K. Badhai, "Design of Beam Steering Antenna for 5G at 28GHz Using Butler Matrix," 2020 5th International Conference on Computing, Communication and Security (ICCCS), Patna, India, 2020, pp. 1-4, doi: <https://doi.org/10.1109/ICCCS49678.2020.9276492>.
20. Payal Bhardwaj, Ritesh Kumar Badhai, "Design and Analysis of Flexible Microstrip Antenna for Wearable Applications at ISM band," in 2020 IEEE 17th India Council International Conference (INDICON), pp. 1-5, IEEE, 2020. <https://doi.org/10.1109/INDICON49873.2020.9342168>
21. A. Utsav and R. K. Badhai, "Design of Dual Band Monopole Antenna for WBAN Communication," 2021 6th International Conference for Convergence in Technology (I2CT), 2021, pp. 1-6, doi: <https://doi.org/10.1109/I2CT51068.2021.9417994>.
22. A. Abhishek, A. Utsav, P. Suraj and R. k. Badhai, "Beam Forming Network Design Using 4x4 Butler Matrix for ISM Band-III (24GHz) Applications," 2021 International Conference on Recent Trends on Electronics, Information, Communication & Technology (RTEICT), 2021, pp. 10-14, doi: 10.1109/RTEICT52294.2021.9573539.
23. Z. Zeya, A. Abhishek, R. K. Badhai and P. Suraj, "Multiband Printed Planar Inverted-F Antenna (PIFA) For LTE Technology," 2021 6th International Conference on

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25. A. Utsav, A. Abhishek, P. Suraj and R. K. Badhai, "An IoT Based UAV Network For Military Applications," 2021 Sixth International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET), 2021, pp. 122-125, doi: 10.1109/WiSPNET51692.2021.9419470.
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27. A. Utsav, R. Priya, A. Abhishek, R. K. Badhai and P. Suraj, "IoT Based Heart Disease Prediction and Diagnosis Model for Healthcare and Monitoring Applications," *2023 3rd International Conference on Advancement in Electronics & Communication Engineering (AECE)*, GHAZIABAD, India, 2023, pp. 195-200, doi: 10.1109/AECE59614.2023.10428156.
28. S. B. Pailawi and P. Suraj, "A Multiband Patch Antenna Using Meander Line for Wireless Communication," *2023 3rd International Conference on Emerging Frontiers in Electrical and Electronic Technologies (ICEFEET)*, Patna, India, 2023, pp. 1-5, doi: 10.1109/ICEFEET59656.2023.10452231.
29. R. Khatoon and P. Suraj, "Semi-Ellipse MIMO Diversity Antenna with a Zigzag Path as Decoupling Structure for UWB Applications," *2022 IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT)*, Bangalore, India, 2022, pp. 1-4, doi: 10.1109/CONECCT55679.2022.9865702.
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33. Z. Zeya, A. Abhishek, R. K. Badhai and P. Suraj, "Multiband Printed Planar Inverted-F Antenna(PIFA)For LTE Technology," *2021 6th International Conference on*

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- 34.A. Abhishek and P. Suraj, "Design of Patch Antenna for 5G Communication at 6 GHz (WRC-23) With WLAN Application," *2021 6th International Conference for Convergence in Technology (I2CT)*, Maharashtra, India, 2021, pp. 1-5, doi: 10.1109/I2CT51068.2021.9418211.
- 35.A. Abhishek, Z. Zeya, P. Suraj and R. K. Badhai, "Design of Beam Steering Antenna for 5G at 28GHz Using Butler Matrix," *2020 5th International Conference on Computing, Communication and Security (ICCCS)*, Patna, India, 2020, pp. 1-4, doi: 10.1109/ICCCS49678.2020.9276492.
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- 38.Z. Zeya, R. K. Badhai and P. Suraj, "Printed Antenna Design for LTE Mobile Applications," *2019 International Conference on Wireless Communications Signal Processing and Networking (WiSPNET)*, Chennai, India, 2019, pp. 383-387, doi: 10.1109/WiSPNET45539.2019.9032782.
- 39.A. Abhishek, A. Utsav, R. K. Badhai and P. Suraj, "Design of Beam Steering Antenna for ISM Band III Using Corporate Feed Network," *2019 International Conference on Communication and Electronics Systems (ICCES)*, Coimbatore, India, 2019, pp. 1468-1472, doi: 10.1109/ICCES45898.2019.9002206.
- 40.A. Kumari, R. K. Badhai and P. Suraj, "A Compact Polygon Shape Ultra Wideband Antenna For Portable Devices," *2018 International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET)*, Chennai, 2018, pp. 1-4. <https://doi.org/10.1109/WiSPNET.2018.8538728>
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- 43.Abhinav Anand ; Priyadarshi Suraj , " Design of a stacked microstrip patch antenna for X-band communication," *2018 4th International Conference on Recent*

- Advances in Information Technology (RAIT), pp. 1-5, <https://doi.org/10.1109/RAIT.2018.8389017>
44. Rahul Kumar ; **Priyadarshi Suraj** ,"Antipodal vivaldi antenna for UWB communication with metamaterials design, modelling and analysis of antipodal vivaldi antenna with EBG structures" 2017 International Conference on Inventive Systems and Control (ICISC),PP. 1-5, DOI: 10.1109/ICISC.2017.8068742 .
- 45.**Priyadarshi Suraj** ; Rashid Aslam ,"Horn shape compact printed monopole antenna for super ultra-wideband (SUWB) applications using DGS " 2017 International Conference on Inventive Systems and Control (ICISC) , PP. 1-5, DOI: 10.1109/ICISC.2017.8068695 .
- 46.Rahul Kumar ; **Priyadarshi Suraj** ,"Multi-resonating antipodal vivaldi antenna for wireless communication domain design and modelling of multi-frequencies based antipodal Vivaldi antenna" 2017 Innovations in Power and Advanced Computing Technologies (i-PACT) , PP. 1-5, DOI: 10.1109/IPACT.2017.8245183
- 47.A. Patro, **P. Suraj** and B. R. Behera, "Achievement of various bands at the UltraWideband range: Design of an UltraWideband antenna using the concept of band-notching," *2016 International Conference on Microelectronics, Computing and Communications (MicroCom)*, Durgapur, 2016, pp. 1-5. doi: 10.1109/MicroCom.2016.7522452.
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