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1. I Harun Surej; S Karthic; G Vigneshwara; T Jeyashri; R Thiruvengadathan; R Gandhiraj; K.A Pradeep Kumar; B.N Binoy; G.A Shanmugha, "Evidence of Scatter in C-band Spatio-temporal Signals using Machine Learning Models," 2020 International Conference on Communication and Signal Processing (ICCSP), Chennai, India, 2020, pp. 1288-1292, doi: 10.1109/ICCSP48568.2020.9182119.
2. S Surya Natarajan; R Ateesh Varun; G Shivasubramanian; D Thamayandran; M Dharani; R Gandhiraj; G A Shanmugha Sundaram, "Detection of Interference in C-Band Signals using K-Means Clustering," 2020 International Conference on Communication and Signal Processing (ICCSP), Chennai, India, 2020, pp. 1521-1526, doi: 10.1109/ICCSP48568.2020.9182228.
3. Vignesh R., Sundaram G.A.S., Gandhiraj R. (2020) Phase-Modulated Stepped Frequency Waveform Design for Low Probability of Detection Radar Signals. In: Thampi S. et al. (eds) Intelligent Systems, Technologies and Applications. Advances in Intelligent Systems and Computing, vol 910. Springer, Singapore. [https://doi.org/10.1007/978-981-13-6095-4\\_14](https://doi.org/10.1007/978-981-13-6095-4_14)
4. Pratibha C., Manish Reddy K., Bharathi L., Manasa M., Gandhiraj R. (2020) Simulation of Dual Polarization Radar for Rainfall Parameter and Drop Size Distribution Estimation. In: Pandian A., Ntalianis K., Palanisamy R. (eds) Intelligent Computing, Information and Control Systems. ICICCS 2019. Advances in Intelligent Systems and Computing, vol 1039. Springer, Cham. [https://doi.org/10.1007/978-3-030-30465-2\\_47](https://doi.org/10.1007/978-3-030-30465-2_47)
5. S Jaiyant Gopal; J Ramnarayan; S Kirthiga; M Jayakumar; M Nirmala Devi; R Gandhiraj; Subhash Chandra Bera, "Capacity Analysis of Correlated MIMO in GEOSAT Downlink Land Mobile System," 2018 International Conference on Advances in Computing, Communications and Informatics (ICACCI), Bangalore, 2018, pp. 1594-1600, doi: 10.1109/ICACCI.2018.8554436.
6. R. Gandhiraj, T. Vinutna, K. B. Sai Bharath, S. K. Venu Sri and P. K. Soman, "A Digital Library at Zero Cost Through a Satellite," 2018 International Conference on Communication and Signal Processing (ICCSP), Chennai, 2018, pp. 1094-1099, doi: 10.1109/ICCSP.2018.8524258.
7. Haritha, Seethal, C. R., and Gandhiraj R., "Realization of Kalman filter in GNU radio", in IEEE International Conference on Computer Communication and Informatics (ICCCI 2017), , Coimbatore, 2017.
8. R. K Kumar, Anand, R., and Gandhiraj R., "Implementation of noise cancellation using least mean square in GNU radio", in 2017 IEEE International Conference on Computer Communication and Informatics (ICCCI 2017), Coimbatore, 2017.

9. P. Raja, Alwarappan, G. Subramania, S, S., C, S., and Gandhiraj R., "Classification of EMI Signatures for Smart Grid", in 2017 IEEE International Conference on Communication and Signal Processing (ICCSP 2017), Tamil Nadu, 2017.
10. Gandhiraj R., T, V., B, S. Bharath Ku, K, V. Sri Sushma, and Soman K P, "Outernet: A digital Library at zero cost for Indian Schools", in IEEE International Conference on Communication and Signal Processing (ICCSP 2017), Tamil Nadu, 2017.
11. Adarsh, Vishak, P., and Gandhiraj R., "Adaptive noise cancellation using NLMS algorithm in GNU radio", in 2017 4th International Conference on Advanced Computing and Communication Systems, ICACCS 2017, Coimbatore, 2017.[Abstract]
12. Gandhiraj R., "Android App for Arithmetic Encoding and Decoding", in IEEE International Conference on Communication and Signal Processing-ICCSP'16, Adhiparasakthi Engineering College, Melmaruvathur, Tamil Nadu, 2016.
13. S, A. Rajalakshmi, Raghavan, R., V, V. Gopal G. S., and Gandhiraj R., "Huffman Encoding and Decoding algorithm using IJulia", in IEEE International Conference on Communication and Signal Processing-ICCSP'16, 2016.
14. A, Nair, A. G., Radhakrishnan, N., , and Gandhiraj R., "Android Application using Qt for Shannon-Fano-Elias Decoding", in IEEE International Conference on Communication and Signal Processing-ICCSP'16, Adhiparasakthi Engineering College, Melmaruvathur, Tamil Nadu, 2016.
15. Gandhiraj R., Radhakrishnan, J., S, S., Kurian, G., and Alluri, D., "Huffman Encoding and Decoding Using Android", in 5th IEEE International Conference on Communication and Signal Processing-ICCSP'16, Adhiparasakthi Engineering College, Melmaruvathur, Tamil Nadu, 2016.
16. N. C, Gandhiraj R., C, V. Prathab, S, P. M., and P, J., "Shannon-Fano-Elias Coding for Android Using Qt", in 5th IEEE International Conference on Communication and Signal Processing-ICCSP'16, Adhiparasakthi Engineering College, Melmaruvathur, Tamil Nadu, 2016.
17. Gandhiraj R. and Subramanian, S., "Insight to AMP and ADMM Based Sparse Signal Reconstruction", in IEEE International Conference on Communication and Signal Processing-ICCSP'16, Adhiparasakthi Engineering College, Melmaruvathur, Tamil Nadu, 2016.
18. Suganya M and Gandhiraj R., "Applicability of MIMO and OFDM technology to SATCOM", in IEEE International Conference on Communication and Signal Processing-ICCSP'16, Adhiparasakthi Engineering College, Melmaruvathur, Tamil Nadu, 2016.
19. M. Kokila, Kavinandhini, M., Vishnu, R., and Gandhiraj R., "Linear Algebra Tool box for GNU Radio Companion", in 4th IEEE International Conference on Communication and Signal Processing-ICCSP'15, Department of Electronics and Communication Engineering, Adhiparasakthi Engineering College, Chennai, 2015.
20. Sundaresan, Anjana, C., Tessy, Z., and Gandhiraj R., "Real Time Implementation of FMCW Radar for Target Detection using GNU Radio and USRP", in 4th IEEE International Conference on Communication and Signal Processing-ICCSP'15, Department of Electronics and Communication Engineering, Adhiparasakthi Engineering College, Chennai, 2015.
21. L. S. Kiran, G. Parvathy, M., Hisham, P. M., Gandhiraj R., and K. P. Soman, "Study of multirate systems and filter banks using GNU Radio", in 4th IEEE International

Conference on Communication and Signal Processing-ICCSP'15, Department of Electronics and Communication Engineering, Adhiparasakthi Engineering College, Chennai, 2015.

22. S. Santhosh, Arunselvan, S. J., Aazam, S. H., Gandhiraj R., and Soman, K. P., "Multicast WebSDR implementation using RTL-SDR", in ICIIIECS 2015 - 2015 IEEE International Conference on Innovations in Information, Embedded and Communication Systems, Karpagam College of Engineering Coimbatore; India; , 2015.
23. P. Kavitha, K. Mohan, M., Surya, R., Gandhiraj R., and Dr. Soman K. P., "Implementation of CDMA in GNU radio", in International Conference on Information and Communication Technologies (ICICT 2014), Bolgatty Palace and Island Resort Kochi, 2015, vol. 46, pp. 981-988.
24. C. Anjana, Sundaresan, S., Zacharia, T., Gandhiraj R., and Dr. Soman K. P., "An Experimental Study on Channel Estimation and Synchronization to Reduce error Rate in OFDM using GNU Radio", in Procedia Computer Science, Bolgatty Palace and Island Resort Kochi; India; 3, 2015, vol. 46, pp. 1056-1063.