Recent Publications from TelWiSe Group

- A. Harivignesh, A. Anbukani and K. Giridhar, "On Reducing the Search Complexity for PMI Selection in Codebook-based 5G NR Systems", accepted for presentation in *IEEE Vehicular Technology Conference* (*VTC 2024-Spring*), Singapore, Jun. 2024.
- S. Sowmya, M. Gokularam M, and K. Giridhar, "Low-Complexity Linear Decoupling of Users for Uplink Massive MU-MIMO Detection", accepted for presentation in *IEEE Vehicular Technology Conference (VTC 2024-Spring*), Singapore, Jun. 2024. (arXiv: <u>2403.03271v2</u>).
- M. Gokularam, S. Sruti and K. Giridhar, "Using DCFT for Multi-Target Detection in Distributed Radar Systems with Several Transmitters", accepted for presentation in *IEEE Radar Conference (RadarConf24)*, Denver, CO, USA, May 2024. (arXiv: <u>2212.09657</u>).
- □ A. Anbukani, A. Harivignesh, and K. Giridhar, "Exploiting CSI-RS Structure for Efficient Fronthaul Functional Split in 5G O-RAN and Low Complexity Channel Estimation", accepted for presentation in *IEEE Wireless Communications and Networking Conference (WCNC-2024)*, Dubai, UAE, Apr. 2024.
- □ S. Sweta and K. Giridhar. "A Novel Local and Hyper-Local Multicast Services Transmission Scheme for Beyond 5G Networks." <u>arXiv 2402.03963 (2024).</u>
- S. Banerjee, S. Desai, Y. Krishna Madan, H. A, M. L. Narayana, and K. Giridhar, "On Provisioning Link Margin for High Bit Rate Q/V Band LEO Communication for Autonomous Vehicles," *IEEE Vehicular Technology Conference (VTC2023-Fall)*, Hong Kong, Oct. 2023.
- □ R. Vignesh and K. Giridhar, "Novel Preamble for Accurate Synchronization of Frequency Hopped OFDM Links," *IEEE Vehicular Technology Conference (VTC2023-Spring)*, Florence, Italy, Jun. 2023.
- M V Abhay Mohan and K. Giridhar, "Interference-Managed Local Service Insertion for 5G Broadcast," <u>TechRxiv. March 17, 2023.</u>
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- S. Sruti, K. Teja, and K. Giridhar, "Non-Parametric Adaptive Thresholding for Channel Estimation of OTFS-Based 6G Communication Links," *IEEE Global Communications Conference (GLOBECOM-2022)*, Rio de Janeiro, Brazil, Dec.2022.
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- M. V. Abhay Mohan and K. Giridhar, "Interference-Aware Accurate Signal Recovery in sub-1 GHz UHF Band Reuse-1 Cellular OFDMA Downlinks," *IEEE Open Journal of the Communications Society*, 10.1109/OJCOMS.2022.3219557, Nov.2022.

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