

## Recent Publications from TelWiSe Group (Oct. 2015 and beyond)

- ❑ S. Sruti, C. Deepti, and K. Giridhar, "Non-Parametric and Geometric Multi-Target Data Association for Distributed MIMO Radars," IEEE Military Communications Conference (MILCOM-2021), San Diego, CA, Nov. 2021.
- ❑ C. Ramanathan, C. R. Venkatesh, and K. Giridhar, "Mitigating Blockage of Transmission and Reception due to Rotor Blades in Air-to-Air Data Link using Single-Carrier Block Modulation," IEEE Military Communications Conference (MILCOM-2021), San Diego, CA, Nov. 2021.
- ❑ D. Basak, S. Sruti, and K. Giridhar, "Comparing Precoded MC-CDMA and OTFS for High-Speed V2X Communications," IEEE Vehicular Technology Conference (VTC2021-Fall), online mode, Sep.-Oct., 2021.
- ❑ S. Mishra, L. Salaün, C. S. Chen and K. Giridhar, "Analysis of Downlink Connectivity in NB-IoT Networks employing NOMA with Imperfect SIC," European Conference on Networks and Communications (EuCNC-2021) and 6G Summit, Porto, Portugal, June 2021.
- ❑ S. Desai and K. Giridhar, "Low Complexity Quasi-MLM Modulation Classification based Optimal Overloaded MU-MIMO Receiver," IEEE 91st Vehicular Technology Conference (VTC2020-Spring), online mode, June 2020.
- ❑ S. A. Nambi and K. Giridhar, "Index and Constellation Order Lowering for OFDM with Index Modulation," in IEEE Communications Letter, Feb. 2020.
- ❑ S. A. Nambi and K. Giridhar, "Modified CI and Modulation Order Replacement for Enhancing OFDM-IM Performance," in IEEE Journal of Selected Topics in Signal Processing, vol. 13, no. 6, pp. 1286-1300, Oct. 2019.
- ❑ S. Banerjee and K. Giridhar, "A Novel Method for Non-Stationary CFO Estimation and Tracking in Inter-UAV OFDM Links," IEEE 90th Vehicular Technology Conference (VTC-Fall), Honolulu (Hawaii), pp. 1-5, Sep. 2019.
- ❑ S. A. Nambi and K. Giridhar, "Lower Order Modulation aided BER Reduction in OFDM With Index Modulation," in IEEE Communications Letters, vol. 22, no. 8, pp. 1596-1599, Aug. 2018.
- ❑ S. Parthasarathy, S. Kumar, R. K. Ganti, S. Kalyani and K. Giridhar, "Error Vector Magnitude Analysis in Generalized Fading with Co-Channel Interference," in IEEE Transactions on Communications, vol. 66, no. 1, pp. 345-354, Jan. 2018.
- ❑ S. Banerjee, K. Madan, C. R. Venkatesh and K. Giridhar "Downlink Preamble Design for Accurate Timing Synchronisation in Ultra-Dense Cellular Networks, " Wireless World Research Forum (WWRF-39), Barcelona, Spain, Oct. 2017.
- ❑ V. Gupta, A. Pradeep, M. Krishna, C. Muthulakshmi, C. A. Kaushik, C. R. Venkatesh and K. Giridhar, "Ultra-Reliable PPDR Broadcast using Licensed Simultaneously Shared Access networks," IEEE International Conference on Communications (ICC Workshops), Paris, pp. 534-539, May 2017.
- ❑ P. Sriram, V. V. Kumar, A. B. Ayyar and K. Giridhar, "On Improving the BLER for ML Receivers in Block Faded Channels through Random Phase Rotation," IEEE Wireless Communications and Networking Conference (WCNC), San Francisco, pp. 1-6, Apr. 2017.

- ❑ O.C. Vishnu, V. V. Kumar, M. Midhun and K. Giridhar. "Joint Uplink LLR Computation, Quantization, and Combining for Load-Balanced Small Cells" IEEE Global Communications Conference (GLOBECOM), Washington DC, pp. 1-6, Dec. 2016.
- ❑ S. Gupta, S. Kumar, R. Zhang, S. Kalyani, K. Giridhar and L. Hanzo, "Resource Allocation for D2D Links in the FFR and SFR Aided Cellular Downlink," in IEEE Transactions on Communications, vol. 64, no. 10, pp. 4434-4448, Oct. 2016.
- ❑ C. R. Venkatesh, S. Kumar, and K. Giridhar, "Multi Operator Simultaneously Shared Synchronised Air Interface for Communications (MOSSSAIC)," Wireless World Research Forum (WWRF-37), Kassel, Germany, Oct. 2016.
- ❑ S. Kumar, S. Kalyani and K. Giridhar, "Impact of Sub-Band Correlation on SFR and Comparison of FFR and SFR," in IEEE Transactions on Wireless Communications, vol. 15, no. 8, pp. 5156-5166, Aug. 2016.
- ❑ S. V. Ramanan and K. Giridhar, "On the Dependence Between User Detection and Timing Advancement in LTE Ranging Channels," in IEEE Communications Letters, vol. 20, no. 7, pp. 1481-1484, July 2016.
- ❑ S. K. Pulliyakode, S. Kalyani, L. Hanzo and K. Giridhar, "Predicting the Affordable Rate in Interference-Limited Cellular Systems Using Higher-Order Markov Models," in IEEE Access, vol. 4, pp. 4730-4748, 2016.
- ❑ G. Raina, S. Manjunath, S. Prasad and K. Giridhar, "Stability and Performance Analysis of Compound TCP With REM and Drop-Tail Queue Management," in IEEE/ACM Transactions on Networking, vol. 24, no. 4, pp. 1961-1974, Aug. 2016.
- ❑ O. C. Vishnu, V. V. Kumar, and K. Giridhar, "Robust Multiuser Detection for Co-ordinated Communications in UHF Band," in Wireless World Research Forum (WWRF-36), Beijing, May 2016.
- ❑ V. V. Kumar and K. Giridhar, "Power Efficient Communications for Joint Detection Receivers in Rician Channels," in Wireless Telecommunications Symposium (WTS-2016), London, Apr. 2016.
- ❑ V. A. Thomas, S. Kumar, S. Kalyani, M. El-Hajjar, K. Giridhar and L. Hanzo, "Error Vector Magnitude Analysis of Fading SIMO Channels Relying on MRC Reception," in IEEE Transactions on Communications, vol. 64, no. 4, pp. 1786-1797, April 2016.
- ❑ S. V. Ramanan, C. R. Venkatesh and K. Giridhar, "Effective ranging techniques in LTE," Twenty Second National Conference on Communication (NCC), Guwahati, pp. 1-6, Mar. 2016.
- ❑ I. Singh, S. Kalyani and K. Giridhar, "A Practical Compressed Sensing Approach for Channel Estimation in OFDM Systems," in IEEE Communications Letters, vol. 19, no. 12, pp. 2146-2149, Dec. 2015.
- ❑ S. Kumar, S. Kalyani, L. Hanzo and K. Giridhar, "Coverage Probability and Achievable Rate Analysis of FFR-Aided Multi-User OFDM-Based MIMO and SIMO Systems," in IEEE Transactions on Communications, vol. 63, no. 10, pp. 3869-3881, Oct. 2015.