

253. DESIGN OF MIMO OFDM CHANNEL TO IMPROVE THE CHANNEL PREDICTION BY EQUALIZATION TECHNIQUES

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Channel prediction is a technique to mitigate the performance degradation due to the feedback delay of the channel state information (CSI).Initially, design the MIMO OFDM system with Spatial and Temporal correlation. Due to this correlation, information present in the system is degraded. So, it is difficult to predict the channel. To eliminate this process, prediction algorithm is used. Then we derive two predictors which select data for auto-regressive (AR) predictors in different ways based on the proposed framework. The first Predictor chooses the data set via minimizing the mean square error (MSE) of prediction model. The second predictor chooses the data in different manner. And this, prediction algorithm is analyzed by equalization techniques.

Keywords---MIMO OFDM, Spatial and temporal correlation, equalization techniques, MMSE.

Journal of Science and Innovative Engineering & Technology