Towards 5G Mobile

Challenges

Results

➢ The proposed solution doubles the transmission rate of each frequency carrier producing a consistent 2 dB gain for different modulation schemes.

➢ Achieve identical BER performance with the recent GFDM, hence, double channel capacity with the same accepted levels of the BER.

Methodology

The (5G) candidate waveform, Orthogonal Generalized Frequency Division Multiplexing (OGFDM).

Aim & Objective

➢ Design & implement a new candidate waveform for the 5G of the mobile to increase the channel capacity of transmission.

➢ By improving the (BW) efficiency.

Conclusion

So far, investigations in the field of BW efficiency is continuous by promoting filtering operation, increasing number of the utilized frequency carriers, and avoiding any probable interference among them.