



AN IMPROVED DOPPLER DIVERSITY TECHNIQUE FOR OFDM SYSTEMS IN TIME-VARYING MULTIPATH FADING CHANNELS (WedPmPO1)

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★ Abstract :

Inter-channel interference(ICI), which results in an irreducible error floor, can be utilized as a source of Doppler diversity for OFDM systems in time-varying multipath channels. The proposed technique can enhance diversity gain by a new criterion for ICI cancellation in addition to enable the reduction of computational complexity and total detection time.