Low Complexity High Data Rate Transmit Diversity Block Code (TDBC)

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Abstract

In this paper a simple scheme for high data rate space time block coding-OFDM is introduced, and compared with the space frequency block coding-OFDM. The effects of several parameters of wireless channels on the systems are investigated. Two types of channels, Flat-fading Rayleigh and multi-path frequency-selective are examined and compared. The system can work on a wide range of bit rate (10-100Mb/s).

Keywords: OFDM, SFBC, STBC.