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RESEARCH ARTICLE

PERFORMANCE EVALUATION FOR FEEDBACK ROTATE- QUASI- ORTHOGONAL SPACE-TIME BLOCK CODES IN MULTIPLE TRANSMIT ANTENNAS

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Abstract

SPACE-time coding is a transmit diversity scheme with optional receive diversity to achieve high data rate and to improve the reliability of a wireless channel. In the past, STBC has full rate and full diversity for four transmit antennas. This technique has high cost and high complexity due to the more feedback information. In this paper, feedback-rotated QOSTBC technique is used to improve its transmit diversity with one bit feedback.. The experimental result shows that the bit error rate of feedback-rotated QOSTBC has better performance compare to other techniques.

Index terms: QOSTBC, feedback, closed-loop, rotation, circulant.

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