Mário Marques da Silva, Américo Correia, "Space Time Block Coding for 4 antennas with coding rate 1" – IEEE – International Symposium on Spread Spectrum Techniques and Application – ISSSTA (Prague – Check Republic), 2-5 September 2002;

Abstract: In this paper we propose a new space time transmit diversity (STTD) scheme for M ($M \geq 4$) transmit antennas and one receive antenna. The new diversity scheme belongs to the open loop class and consists of an extension to the work presented in [1,2,3]. The coding rate of the new scheme is one and in spite of the presence of inter-symbol interference it achieves, at least, the full diversity after applying a multi-dimensional orthonormal rotation to the original constellation. Each sequence with an integer multiple of M received

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