Abstract

In this paper, we face the design of a space-time trellis code (STTC) to be used in serial concatenation with an SCCC, in order to be iteratively decoded at the coherent receiver. Both Rayleigh and Rice MIMO fading channels are considered. EXIT charts are the key design tool that has been used to optimize the STTC. Simulation results show indeed the advantage of using a recursive STTC w. r. t. using a nonrecursive STTC or even simple spatial multiplexing.
References


Index Terms

Computer Science

Wireless Communications
**Keywords**

Mimo  Serially Concatenated Convolutional Codes  Space-time Trellis Codes  Iterative Receivers

Exit Charts