"Throughput Performance of ARQ Schemes Based on Punctured Turbo codes in Rayleigh Fading Channels"

Kousa, Maan A. (2003)

Abstract

The astonishing performance of turbo codes can be used to enhance the throughput efficiency of data networks based on automatic report request. In wireless channels, the throughput can be maximized by adaptively matching the error correction capability of the code to the prevailing channel conditions. This paper investigates the throughput efficiency of hybrid ARQ based on punctured turbo codes. The throughput is enhanced when code sets are designed along the guidelines of good puncturing patterns.