

TRACEBACK OPERATION IN VITERBI DECODING FOR RATE-K/N CONVOLUTIONAL CODES

Abstract

A method for performing traceback operation in Viterbi decoding for rate-k/n convolutional codes or trellis codes. The method comprising the steps of reading the survivor path information from the storage unit, error-free starting state calculation stage, result output calculation stage and reversing the order of obtained result to get the final desired outputs. This method reduces the hardware and time complexities to perform traceback operation in Viterbi decoding for rate-k/n convolutional codes.

(Fig. 7)