

METHOD AND MEANS FOR DETECTING PARTIAL RESPONSE WAVEFORMS
USING A MODIFIED DYNAMIC PROGRAMMING HEURISTIC

ABSTRACT

A Viterbi decoder having a recursive processor modified to process each node in a trellis of a partial response coded signal to shift the branch metric additions over the node to effectuate compare, select, add operation order on the predecessor survivor metrics terminating in that node, to compare the metrics of the predecessor sequences terminating in the node, to select a survivor sequence, and to add the shifted branch metrics to the metric of the selected survivor sequence.