



ABSTRACT

CONFIDENCE AND FRAME SIGNAL QUALITY DETECTION IN A SOFT DECISION CONVOLUTIONAL DECODER

Received signals are processed (111) to generate confidence measure signals. Before these are forwarded to a soft decision decoder (116), correction factors are applied, e.g. by a look-up table (113), to reduce the extent to which the signals differ from a logarithmic representation of the error statistics of the received signals. Alternatively, or as well, the confidence measure signals may be summed (122) and thresholded (123) to provide a quality-indicating signal. In a coder, error check bits for frame of bits to be convolutionally coded are generated from bits taken from the beginning and end of the frame but not the middle.

Fig. 1