

Title (en)

METHOD FOR QUANTIZING SPEECH CODER PARAMETERS

Title (de)

VERFAHREN ZUR QUANTISIERUNG DER PARAMETER EINES SPRACHKODIERERS

Title (fr)

PROCEDE DE QUANTIFICATION DES PARAMETRES D'UN CODEUR DE PAROLE

Publication

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Application

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Priority

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Abstract (en)

[origin: US6687667B1] A method for encoding speech at a low bit rate. The method assembles parameters on N consecutive frames to form a super-frame. A vector quantization of transition frequencies of a voicing during each super-frame is made. Only the most frequent configurations are transmitted without deterioration and the least frequent configurations are replaced by the configuration that is the nearest in terms of absolute error among most frequent configurations. The pitch is encoded in carrying out a scalar quantization of only one value of the pitch for each super-frame. The energy is encoded in selecting only a reduced number of values in assembling these values in sub-packets quantized by vector quantization. The spectral envelope parameters are encoded by vector quantization in selecting only a determined number of filters. The untransmitted energy values are recovered in the synthesis part by interpolation or extrapolation from transmitted values. Such a method may find particular application in vocoders.

IPC 1-7

G10L 19/14

IPC 8 full level

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