

Title (en)

Robust quantization with efficient WMSE search of a sign-shape codebook using illegal space

Title (de)

Robuste Quantisierung mit WMSE Suche in einem Vorzeichen-Form Kodebuch unter Verwendung von illegalem Raum

Title (fr)

Quantisation robuste avec recherche WMSE d'une table de codes indice-forme utilisant un espace illégal

Publication

EP 1293967 B1 20081105 (EN)

Application

EP 02255723 A 20020816

Priority

- US 31254301 P 20010816
- US 16337802 A 20020607
- US 16399502 A 20020607
- US 16334402 A 20020607

Abstract (en)

[origin: EP1293967A2] A method of searching a signed codebook to quantize a vector includes weighting a shape codevector in a set of shape codevectors with a weighting function for a Weighted Mean Square Error (WMSE) criteria, to produce a weighted shape codevector. The method further includes correlating the weighted shape codevector with the vector to produce a weighted correlation term. The method also includes determining, based on a sign of the weighted correlation term, a preferred one of a positive and a negative signed codevector associated with the shape codevector. The method further includes determining whether one of the signed codevectors does not belong to an illegal space defining illegal vectors. <IMAGE>

IPC 8 full level

G10L 19/07 (2013.01)

CPC (source: EP)

G10L 19/07 (2013.01); **G10L 2019/0007** (2013.01); **G10L 2019/0013** (2013.01)

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ATAL; SCHROEDER: "Predictive Coding of Speech Signals and Subjective Error Criteria", IEEE TRANSACTIONS ON ACOUSTICS, SPEECH AND SIGNAL PROCESSING, IEEE INC., NEW YORK, US

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