

Title (en)

Rate-distortion optimization for advanced audio coding

Title (de)

Raten-Verzerrungsoptimierung für eine erweiterte Audiokodierung

Title (fr)

Optimisation de la distorsion de vitesse pour codage audio avancé

Publication

EP 2346031 B1 20150930 (EN)

Application

EP 09177267 A 20091126

Priority

EP 09177267 A 20091126

Abstract (en)

[origin: EP2346031A1] A method for optimization of rate-distortion for Advanced Audio Coding (AAC). The method provides for the identification of quantized spectral coefficient sequences for optimization of rate-distortion. The method also provides joint optimization of scale factors, Huffman codebooks and quantized spectral coefficient sequences for minimization of a rate-distortion cost. The method provides an iterative rate-distortion optimization algorithm for AAC encoding. In each iteration, the method first finds the optimal scale factors and quantized spectral coefficients when Huffman codebooks are fixed, then updates Huffman codebooks and quantized spectral coefficients given the optimized scale factors. The iterations may be applied until a predetermined threshold is attained.

IPC 8 full level

G10L 19/035 (2013.01); **G10L 19/02** (2006.01)

CPC (source: EP)

G10L 19/035 (2013.01)

Cited by

CN109889837A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

EP 2346031 A1 20110720; EP 2346031 B1 20150930; CA 2718865 A1 20110526; CA 2718865 C 20151020

DOCDB simple family (application)

EP 09177267 A 20091126; CA 2718865 A 20101026