Title (en)

Time shifting for analysis-by-synthesis coding

Title (de)

Zeitverschiebung zur Kodierung von Analyse durch Synthese

Title (fr)

Décalement du temps pour codage avec analyse par synthèse

Publication

EP 0602826 B1 19990825 (EN)

Application

EP 93309580 A 19931201

Priority

US 99030992 A 19921214

Abstract (en)

[origin: EP0602826A2] A generalized analysis-by-synthesis technique is disclosed. Illustratively, a section of an original signal containing a local maximum energy is identified. A plurality of segments of the original signal containing the local maximum energy are selected based on a plurality of time shifts. These segments are termed "trial original signals." Each trial original signal is compared to a synthesized signal from an adaptive codebook and a measure of similarity (e.g., a cross-correlation) between these signals is evaluated. A trial original signal for use in coding is determined based on one or more evaluated measures of similarity. A signal reflecting a coded representation of the original signal is generated based on one or more determined trial original signals. The signal reflecting a coded representation of the original signal may be provided by an analysis-by-synthesis coder, such as a CELP coder. <IMAGE>

IPC 1-7

G10L 5/06; G10L 5/02; G10L 7/02

IPC 8 full level

G10L 19/12 (2013.01)

CPC (source: EP)

G10L 19/12 (2013.01); G10L 25/06 (2013.01); G10L 2019/0002 (2013.01); G10L 2019/0011 (2013.01)

Cited by

EP0764940A3; US8121833B2; US8744091B2; US7451091B2; US7467083B2; US7680651B2; US7269559B2; WO2012064764A1; WO2005034090A1; US7869993B2; EP1162604B1

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

EP 0602826 A2 19940622; **EP 0602826 A3 19941207**; **EP 0602826 B1 19990825**; CA 2102080 A1 19940615; CA 2102080 C 19980728; DE 69326126 D1 19990930; DE 69326126 T2 20000706; ES 2136649 T3 19991201; JP 3770925 B2 20060426; JP H06214600 A 19940805; MX 9307743 A 19940630

DOCDB simple family (application)

EP 93309580 A 19931201; CA 2102080 A 19931029; DE 69326126 T 19931201; ES 93309580 T 19931201; JP 34203493 A 19931214; MX 9307743 A 19931208