

Title (en)

Time shifting for analysis-by-synthesis coding.

Title (de)

Zeitverschiebung zur Kodierung von Analyse durch Synthese.

Title (fr)

Décalage du temps pour codage avec analyse par synthèse.

Publication

**EP 0602826 A2 19940622 (EN)**

Application

**EP 93309580 A 19931201**

Priority

US 99030992 A 19921214

Abstract (en)

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 19/00** (2006.01); **G10L 19/04** (2006.01); **G10L 19/12** (2006.01)

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

US8121833B2; EP0764940A3; US8744091B2; US7269559B2; US7680651B2; US7467083B2; US7451091B2; 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