

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 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

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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

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