

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 A3 19941207 (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)

Citation (search report)

- [XP] EP 0539103 A2 19930428 - AMERICAN TELEPHONE & TELEGRAPH [US]
- [A] EP 0500961 A1 19920902 - FUJITSU LTD [JP]
- [A] EP 0418958 A2 19910327 - NEDERLAND PTT [NL]

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