

Title (en)

Method and apparatus for smoothing pitch-cycle waveforms

Title (de)

Verfahren und Vorrichtung zur Glättung von Grundperiodewellenformen

Title (fr)

Méthode et appareil pour le lissage des formes d'onde de la période fondamentale

Publication

EP 0537948 B1 19970903 (EN)

Application

EP 92309167 A 19921008

Priority

US 77856091 A 19911018

Abstract (en)

[origin: EP0537948A2] A method and apparatus for processing a reconstructed speech signal from an analysis-by-synthesis decoder are provided to improve the quality of reconstructed speech. By operation of the invention, one or more traces in a reconstructed speech signal are identified. Traces are sequences of like-features in the reconstructed speech signal. The like-features are identified by time-distance data received from the long term predictor of the decoder. The identified traces are smoothed by one of the known smoothing techniques. A smoothed version of the reconstructed speech signal is formed by combining one or more of the smoothed traces. The original reconstructed speech signal may be that provided by a long term predictor of the decoder. Values of the reconstructed speech signal and smoothed speech signal may be combined based on a measure of periodicity in speech. <IMAGE>

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