

Title (en)

Method and apparatus for generating a signal transformation and the use thereof in signal processings.

Title (de)

Verfahren und Einrichtung von Signalumwandlung und ihre Anwendung zur Signalverarbeitung.

Title (fr)

Procédé et dispositif de transformation d'un signal et leur application au traitement d'un signal.

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Application

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Priority

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Abstract (en)

A method and apparatus for generating a signal transformation useful in signal processing is provided. According to the preferred embodiment, a signal, e.g., a speech waveform, is first converted into a sequence of digital data samples, and a reference position along a first sub-part of the sequence is then selected. A "weighted" histogram corresponding to the reference position is then generated according to a correlation function. Thereafter, a new reference position is selected, for example, at a sub-part of the sequence located a pitch period of the signal from the original reference position, and an additional histogram is generated for this sub-part. The plurality of histograms comprise the transformation of the signal, which retains a substantial part of the informational content of the original signal. Therefore, the transformation is then used as the signal itself in signal processing applications such as speech compression and synthesis.

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