

Title (en)

A FAST FREQUENCY TRANSFORMATION TECHNIQUE FOR TRANSFORM AUDIO CODERS

Title (de)

SCHNELLE FREQUENZTRANSFORMATIONSTECHNIK FÜR TRANSFORM AUDIO KODER

Title (fr)

TECHNIQUE RAPIDE DE TRANSFORMATION DE FREQUENCES DESTINEE A DES CODEURS AUDIO A TRANSFORMEE

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Priority

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Abstract (en)

[origin: WO9943110A1] A method for coding digital audio data in which coded Fast Modified Discrete Cosine Transform (FMDCT) coefficients are computed utilising a Fast Fourier Transform (FFT) method. The described method allows a significant reduction in computations as compared to an ordinary DCT coding procedure. Also, pairs of audio channels can be combined to use a single FFT computation, where the selected transform length for the paired channels is the same. In such cases where pairing of identical transform length channels is not possible, a long transform length channel is combined with a short transform length channel and converted in two short transforms. A windowing function is also combined with a pre-processing stage to the transformation, further decreasing computational requirements.

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