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REDUCED-ERROR PROCESSING OF TRANSFORMED DIGITAL DATA

Abstract

This invention provides a novel method, system and apparatus for reduced-error processing of transform-coded data. After inverse transformation (120) of transform data (100) the high precision numbers (130) are manipulated. The converting to integers and clipping to an allowed range steps (140) are executed at any stage in the manipulation to obtain integer representation of the inverse transformed data (150) such as for displaying of the data. However, further processing including forward transforming (410) back to the transform domain is executed on the high precision numbers. Thus, the rounding and clipping errors are not present in the processed data. The invention is particularly advantageous for use in digital studios during editing of MPEG-, JPEG- and wavelet-coded video and audio data.

Fig 1a

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