

Title (en)

IMAGE PROCESSING METHOD USING A BLOCK OVERLAP TRANSFORMATION PROCEDURE

Title (de)

BILDVERARBEITUNGSVERFAHREN MIT BLOCKÜBERLAPPUNGSTRANSFORMATION

Title (fr)

PROCEDE DE TRAITEMENT D'IMAGE A L'AIDE D'UNE PROCEDURE DE TRANSFORMATION PAR CHEVAUCHEMENT DE BLOC

Publication

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Application

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Priority

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- US 7566498 P 19980223

Abstract (en)

[origin: WO9942954A1] An image for digital image processing is often parsed into tiles, then the processing is applied to each tile separately. This segmentation reduces active memory and processing time compared to that needed to process the entire image as a whole. The image is parsed into a larger number of overlapping tiles. After image processing, the blocks are blended by multiplying each with a blending window chosen to be mutually constant, and the blocks are added together to form the product image free of transition artifacts. In one implementation the centers of the overlapping blocks are on a diagonal grid. In another implementation, a function of the complete window, typically the square root of each pixel of the window, is applied to the blocks prior to processing and the remainder applied after processing. This softens tile edges going into the image processing application to permit better results from edge sensitive functions, such as a Fourier transform.

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