

Motion Estimation Algorithms For Video Compression The Springer International Series In Engineering And Computer Science

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Motion estimation is the process of determining motion vectors that describe the transformation from one 2D image to another; usually from adjacent frames in a video sequence. It is an ill-posed problem as the motion is in three dimensions but the images are a projection of the 3D scene onto a 2D plane. The motion vectors may relate to the whole image (global motion estimation) or specific ...

[Motion estimation - Wikipedia](#)

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Abstract Motion estimation process is an important module in digital video coding applications as it demands more computations when compared to other modules of digital video coding. In order to overcome this difficulty, many motion estimation algorithms were proposed.

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– Motion estimation criterion – Optimization methods – Gradient descent methods • Pixel-based motion estimation • Block-based motion estimation assuming constant motion in each block – EBMA algorithm revisited – Half-pel EBMA – Hierarchical EBMA (HBMA) • Deformable block matching (DBMA) • Mesh-based motion estimation

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This paper (and accompanying MATLAB source code) is a review of the block matching algorithms used for motion estimation in video compression. It implements and compares 7 different types of block matching algorithms that range from the very basic Exhaustive Search to the recent fast adaptive algorithms like Adaptive Rood Pattern Search.

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Motion estimation is the process of determining motion vectors that describe the transformation from one 2D image to another; usually from adjacent frames in a video sequence. The motion vectors may relate to the whole image (global motion estimation) or specific parts, such as rectangular blocks, arbitrary shaped patches or even per pixel.

[Block-matching algorithm - Wikipedia](#)

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