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The technology promises to be the key for the transmission of motion video. A number of video compression techniques and standards have been introduced in the past few years, particularly the MPEG-1 and MPEG-2 for interactive multimedia and for

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The aim of motion estimation for video coding is to simultaneously minimize the bit rate corresponding both to the motion parameters (motion bits) and to the prediction error signal (DFD bits).

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As illustrated in Figure 4.14, the three algorithms represent three different tradeoffs between prediction quality and motion overhead.

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Motion estimation is the process of

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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

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[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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Overview of Motion Estimation Algorithms for Video Coding

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Super-resolution (SR) is the process of obtaining a high resolution (HR) image or a sequence of HR images from a

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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

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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

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rectangular blocks, arbitrary shaped patches or even per pixel.

[Block-matching algorithm - Wikipedia](#)

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