

Sabri A. Mahmoud,
"Motion Estimation based on modified Fourier spectrum",
Information Processing Letters, 37, pp.311-313,1991.

Key words: Data Processing, Analysis of Algorithms

Information Processing Letters 37 (1991) 311–313
North-Holland

28 March 1991

Motion estimation based on modified Fourier spectrum

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Communicated by P. Henderson
Received June 1990
Revised 30 October 1990

Abstract

Mahmoud, S.A., Motion estimation based on modified Fourier spectrum, Information Processing Letters 37 (1991) 311–313.
A new technique for motion estimation using modified Fourier spectrum is presented. The Fourier spectrum of the image sequence is modified such that the imaginary part is subtracted from the real part. It is proved that the velocity is related to the location of the peaks in the modified spectrum. This method is faster than the previous implementations using the original Fourier spectrum.

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