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#### MOTION DETECTION USING HARTLEY TRANSFORM

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#### ABSTRACT

A new technique for motion detection using Hartley Transform is presented. The Hartley transform is directly used in motion analysis and not as a tool for computing other transforms as is generally recommended. This method is faster than other techniques using Fourier, Cosine and Sine transforms. Simulations are included to demonstrate the applicability of the technique.

from the FHT.

In this technique, the FHT is applied to the image sequence followed by a peak detection procedure. The location of the peak is related to the velocity of the moving object.

The analytical model and formulations for a moving object, in a time sequence, are presented in the next section. The following section covers