FAST MOTION ESTIMATION BY MOTION VECTOR MERGING PROCEDURE FOR H.264 (FriAmPO1)

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Abstract:
In this paper, we propose a fast motion estimation algorithm for variable block–size by using a motion vector merge procedure for H.264. The motion vectors of adjacent small blocks are merged to predict motion vectors in large blocks for reducing the computation. Experimental results show that our proposed method has higher computational efficiency than full search, fast full search and fast motion estimation of the H.264 reference software JM91 especially in high motion video.