Model-based object segmentation in video sequence

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This paper presents an object contour detection using the object shape model. First, we detect the change of background luminance ratio outside the bounding box of object. Second, the temporal segmentation is obtained by mesh based motion activity detection. A new combined mask is composed of temporal segmentation result and shape model by OR operation. Finally, for modification of the mask, we detect the non-matching points with local gradient along the boundary of combined mask in a counting window. And the MSE is calculated for the detection of the matching points. The video object contour will be obtained by the iterative algorithm.

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