



VIDEO FRAME SEGMENTATION USING COMPETITIVE CONTOURS (MonPmPO3)

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✳ Abstract :

The paper presents a technique for segmentation of colour images from video sequences. The technique is aimed at extraction of multiple objects in the presence of background motion, and without global motion compensation. The modified version of the Multi-label Fast Marching algorithm is used in the segmentation process. The most important modification is related to the possibility of segment merging as well as pushing back borders of another segments. Thanks to this, limitation of one-way propagation for fast marching is removed. The experiments described in this paper are restricted to the video sequences with translational motion of rigid objects only. The side effect of the algorithm is the regularized motion field.

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