

A NOVEL APPROACH FOR EXTRACTING TEXT FEATURES IN IMAGE INDEXING SYSTEM USING SAD

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Abstract

In Image indexing system, retrieval of digital image is significant of image databases. One fundamental indexing is text appearing in color images. This paper introduces a novel method for detecting, extracting and inpainting. The proposed algorithm in this paper, deals with the problem of inpainting. The method for detecting text blocks in image, we utilize stroke filter, and an efficient segmentation verification algorithms. Then, we estimate text and background color using color histogram obtained in each sub-blocks of the candidate text blocks. Finally, by implementing the missing hole-filling through texture synthesis and matching based on pixel by pixel approach, number of pixels restored at each inpainting step. We use SAD approach to find best matching pixel for damaged pixel around their neighborhood region. The matching process is based on priority for inpainting of pixels. This proposed technique makes faster than other inpainting methods. Experimental results on texture synthesis algorithm shows effectiveness of proposed method.

Keywords : SAD, Stroke filter, Inpainting, Texture synthesis

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