



Hybrid Digital Image Classification Based on Blur Detection

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Abstract— Popular entertainment and communication services of internet or mobile applications is multimedia content such as image, audio and video that may suffer from low quality problem. Blur is the one of the factors that degrades the quality of image or frames in video. Enhancement or restoration of blurred image requires detection of blurred region or kernel. Therefore, blur detection is the initial and main step of blur phenomena followed by blur classification and restoration process. In this paper, we presented overview on a few defocus and motion blur detection methods with their applications. Some of this methods based on features of blurred kernel while others not. These methods can be either direct or indirect. Direct methods only identify the blurred region and segment it from un-blurred one. While indirect methods first detect and then restore the blurred region. We discussed both type of blur detection methods.

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I.INTRODUCTION

Blur detection, one of the popular research areas in computer vision system is showing an increasing research trend. It is expected that computer vision technology will be the future of the manufacturing line, replacing most of the human operator works and cut operational cost in long term basis [1]. However, it is worth noting that up to this day, human work still has an upper hand on most of the industries over computer vision work [2]. Blur detection method can be applied as initial stage for de-blurring when the machine vision of manufacturing line is out of focus or due to rapid movement of the inspected product. There are applications for blur detection method for crime solving purposes, as part of the image enhancement for video surveillance system for a clearer picture of the criminal. In daily life routine, blur detection application can be used to de-blur precious image which is blurred. The blurring of image may due to many causes; the two commonly studied classification of the blur type is near-isotropic blur, which includes out of focus blur, and directional motion blur.

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