
Digital Image Processing By Jayaraman S, Veerakumar T, Esakkirajan S !FULL!

digital image is becoming very popular among the people due to the availability of digital camera and scanner. digital images are usually captured through camera and stored in hard disk which is then converted into the image files. the compressed image files contain the image data in different formats like jpeg, tiff and so on. these files are then stored in the hard disk for future use. the image file stored in the hard disk can be used for viewing by computer or the mobile phone etc. the image file stored in the hard disk can be retrieved by means of the computer for further processing. in this paper, a simple approach is proposed to detect the orientations and orientations of the printed text in the images captured through a digital camera. the experiments demonstrate that the proposed approach can be used as a pre-processing step for the automatic text detection in the images. it is important to detect the object in the image as early as possible, before the camera is turned on. the proposed approach uses one or more image sensors to capture the video images and then uses the video image information to estimate the transition time of the camera from off to on state. the camera's clock, however, is out of synchronization with the clock of the digital image processing system. to handle this problem, the proposed approach estimates the time when the camera is turned on and the time when the shutter of the camera is first open and closes. then the difference between the two estimates is calculated and finally used to estimate the time when the camera is turned on.

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In this paper, the performance of the wavelet decomposition based methods for the digital image denoising is presented. The enhanced images are also compared with the images of original by changing the settings of the parameters. Also, the denoised images are compared with the original images by analyzing the histogram and contrast ratio. The obtained results are utilized to analyze the performance of various denoising methods. The results show that the wavelet method enhances the images better than other methods such as mean and median methods. Image denoising is a challenging problem in image processing. In this paper, we propose a new method for image denoising. The new method is based on the Canny and wavelet transforms and is tested on the database of corrupted real images. The new method is tested on the real images corrupted by the five different noise levels. The new method is compared with the popular non-local means and thresholding methods. Experimental results show that the new method outperforms the state-of-the-art methods in terms of the PSNR, MSE, energy and structure similarity metrics. The new method is robust against the variation in the noise level. Digital image filtering is a tool for image analysis which comprises preprocessing, denoising, restoration, segmentation and classification. In this paper, the different aspects of digital image filtering in transformer oil image are assessed by comparing the PSNR, MSE values and visual inspection. A simple and rapid method for measuring the quality of digital image filtering is PSNR. This paper has computed the PSNR of all the image of each experiment as the image filtering technique is more effective with high PSNR value. The MSE (or mean squared error) is calculated as the difference between the intensity of the original image and the reconstructed image. MSE is the average of all the pixels and the PSNR is inversely proportional to the MSE. PSNR is computed for each image for the computed results. The comparative values of PSNR and MSE are used to assess the quality of the image reconstruction. An image is considered as visually acceptable if PSNR is greater than 30dB and MSE is less than 0.01. A digital image preprocessing technique that can attain high PSNR and MSE values will be reported. The overall quality of the filtered images is measured by evaluating the human visual system (HVS). The performance of different digital image filtering techniques is evaluated by visual inspection. Sec8ef588b

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