IMAGE PROCESSING in MATLAB. ROI PROCESSING, IMAGE DEGRADATION, COLOR, BLOCKS and GPU COMPUTING

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CreateSpace Independent Publishing Platform. Paperback. Condition: New. This item is printed on demand. 142 pages. Dimensions: 10.0in. x 8.0in. x 0.3in.This book develops a set of reference-standard algorithms and workflow apps for image processing, analysis, visualization, and algorithm development. You can perform image segmentation, image enhancement, noise reduction, geometric transformations, image registration, and 3D image processing. Image Processing Toolbox apps let you automate common image processing workflows. You can interactively segment image data, compare image registration techniques, and batch-process large datasets. Visualization functions and apps let you explore images, 3D volumes, and videos; adjust contrast; create histograms; and manipulate regions of interest (ROIs). Image Processing Toolbox supports four methods to generate a binary mask. The binary mask defines a region of interest (ROI) of the original image. Mask pixel values of 1 indicate the image pixel belongs to the ROI. Mask pixel values of 0 indicate the image pixel is part of the background. Any binary image can be used as a mask, provided that the binary image is the same size as the image being filtered. You can create a mask from a grayscale image by classifying each pixel as belonging to either the region of interest or the background. Filtering a region of interest (ROI) is the process of applying a filter to a region in an image, where a binary mask defines the region. For example, you can apply an intensity adjustment filter to certain regions of an image. The blurring, or degradation, of an image can be caused by many factors: Movement during the image capture process (by the camera or, when long exposure times are used, by the subject), Out-of-focus optics (use of a wide-angle lens, atmospheric turbulence, or a short exposure time, which reduces the number of photons captured) and Scattered light distortion in...

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