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(Edgar Witting)

COMPUTER VISION IN MATLAB. OBJECT DETECTION, MOTION ESTIMATION AND TRACKING, FILTERS AND FIXED POINT DESIGN (PAPERBACK)

Createspace Independent Publishing Platform, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.This book develops algorithms, functions, and apps for designing and simulating computer vision and video processing systems. Algorithms are available as MATLAB functions, System objects, and Simulink blocks. You can perform feature detection, extraction, and matching, as well as object detection and tracking. Local features and their descriptors are the building blocks of many computer vision algorithms. Their applications include image registration, object detection and classification, tracking, and motion estimation. These algorithms use local features to better handle scale changes, rotation, and occlusion. Segmentation is essential for image analysis tasks. Semantic segmentation describes theprocess of associating each pixel of an image with a class label, (such as flower, person, road, sky, ocean, or car). Applications for semantic segmentation include: Autonomous driving, Industrial inspection, classification of terrain visible in satellite imagery and Medical imaging analysis. You can use the Image Labeler app to interactively label pixels and export the label data for training. The app can also be used to label rectangular regions of interest (ROIs) and scene labels for image classification. Image feature detection is a building block of many computer vision tasks, such as image registration, tracking, and object detection. The Computer Vision System Toolbox includes a variety of functions for image feature detection. These functions return points objects that store information specific to particular types of features, including (x, y) coordinates (in the Location property). You can pass a points object from a detection function to a variety of other functions that require feature points as inputs. The algorithm that a detection function uses determines the type of points object it returns. The optical character recognition (OCR) app trains the ocr function to recognize acustom language or font. You can...

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