



Computer Vision and Image Processing

OpenCV 2 Computer Vision Application Programming Cookbook

Over 100 recipes to master this library of programming functions
for real-time computer vision



Robert T. Tardieu

Example | **OpenCV** | **OpenCV**

Opencv 2 Computer Vision Application Programming Cookbook Laganieri Robert

Joseph Howse



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OpenCV 2 Robert Laganieri, 2011 **OpenCV 3 Computer Vision Application Programming Cookbook** Robert Laganieri, 2017-02-09 Recipes to help you build computer vision applications that make the most of the popular C library OpenCV 3 About This Book Written to the latest gold standard specification of OpenCV 3 Master OpenCV the open source library of the computer vision community Master fundamental concepts in computer vision and image processing Learn about the important classes and functions of OpenCV with complete working examples applied to real images Who This Book Is For OpenCV 3 Computer Vision Application Programming Cookbook Third Edition is appropriate for novice C programmers who want to learn how to use the OpenCV library to build computer vision applications It is also suitable for professional software developers who wish to be introduced to the concepts of computer vision programming It can also be used as a companion book for university level computer vision courses It constitutes an excellent reference for graduate students and researchers in image processing and computer vision What You Will Learn Install and create a program using the OpenCV library Process an image by manipulating its pixels Analyze an image using histograms Segment images into homogenous regions and extract meaningful objects Apply image filters to enhance image content Exploit the image geometry in order to relay different views of a pictured scene Calibrate the camera from different image observations Detect people and objects in images using machine learning techniques Reconstruct a 3D scene from images In Detail Making your applications see has never been easier with OpenCV With it you can teach your robot how to follow your cat write a program to correctly identify the members of One Direction or even help you find the right colors for your redecoration OpenCV 3 Computer Vision Application Programming Cookbook Third Edition provides a complete introduction to the OpenCV library and explains how to build your first computer vision program You will be presented with a variety of computer vision algorithms and exposed to important concepts in image and video analysis that will enable you to build your own computer vision applications This book helps you to get started with the library and shows you how to install and deploy the OpenCV library to write effective computer vision applications following good programming practices You will learn how to read and write images and manipulate their pixels Different techniques for image enhancement and shape analysis will be presented You will learn how to detect specific image features such as lines circles or corners You will be introduced to the concepts of mathematical morphology and image filtering The most recent methods for image matching and object recognition are described and you ll discover how to process video from files or cameras as well as how to detect and track moving objects Techniques to achieve camera calibration and perform multiple view analysis will also be explained Finally you ll also get acquainted with recent approaches in machine learning and object classification Style and approach This book will arm you with the basics you need to start writing world aware applications right from a pixel level all the way through to processing video sequences **OpenCV Computer Vision Application Programming Cookbook Second Edition** Robert

Laganière,2014-08-26 OpenCV 3 Computer Vision Application Programming Cookbook is appropriate for novice C programmers who want to learn how to use the OpenCV library to build computer vision applications It is also suitable for professional software developers wishing to be introduced to the concepts of computer vision programming It can also be used as a companion book in a university level computer vision courses It constitutes an excellent reference for graduate students and researchers in image processing and computer vision *OpenCV 4 Computer Vision Application Programming Cookbook* David Millán Escrivá,Robert Laganiere,2019-05-03 Discover interesting recipes to help you understand the concepts of object detection image processing and facial detection Key FeaturesExplore the latest features and APIs in OpenCV 4 and build computer vision algorithmsDevelop effective robust and fail safe vision for your applicationsBuild computer vision algorithms with machine learning capabilitiesBook Description OpenCV is an image and video processing library used for all types of image and video analysis Throughout the book you ll work through recipes that implement a variety of tasks such as facial recognition and detection With 70 self contained tutorials this book examines common pain points and best practices for computer vision CV developers Each recipe addresses a specific problem and offers a proven best practice solution with insights into how it works so that you can copy the code and configuration files and modify them to suit your needs This book begins by setting up OpenCV and explains how to manipulate pixels You ll understand how you can process images with classes and count pixels with histograms You ll also learn detecting describing and matching interest points As you advance through the chapters you ll get to grips with estimating projective relations in images reconstructing 3D scenes processing video sequences and tracking visual motion In the final chapters you ll cover deep learning concepts such as face and object detection By the end of the book you ll be able to confidently implement a range of computer vision algorithms to meet the technical requirements of your complex CV projects What you will learnInstall and create a program using the OpenCV librarySegment images into homogenous regions and extract meaningful objectsApply image filters to enhance image contentExploit image geometry to relay different views of a pictured sceneCalibrate the camera from different image observationsDetect people and objects in images using machine learning techniquesReconstruct a 3D scene from imagesExplore face detection using deep learningWho this book is for If you re a CV developer or professional who already uses or would like to use OpenCV for building computer vision software this book is for you You ll also find this book useful if you re a C programmer looking to extend your computer vision skillset by learning OpenCV

OpenCV: Computer Vision Projects with Python Joseph Howse,Prateek Joshi,Michael Beyeler,2016-10-24 Get savvy with OpenCV and actualize cool computer vision applications About This Book Use OpenCV s Python bindings to capture video manipulate images and track objects Learn about the different functions of OpenCV and their actual implementations Develop a series of intermediate to advanced projects using OpenCV and Python Who This Book Is For This learning path is for someone who has a working knowledge of Python and wants to try out OpenCV This Learning Path will take you from a

beginner to an expert in computer vision applications using OpenCV OpenCV's applications are humongous and this Learning Path is the best resource to get yourself acquainted thoroughly with OpenCV What You Will Learn Install OpenCV and related software such as Python NumPy SciPy OpenNI and SensorKinect all on Windows Mac or Ubuntu Apply curves and other color transformations to simulate the look of old photos movies or video games Apply geometric transformations to images perform image filtering and convert an image into a cartoon like image Recognize hand gestures in real time and perform hand shape analysis based on the output of a Microsoft Kinect sensor Reconstruct a 3D real world scene from 2D camera motion and common camera reprojection techniques Detect and recognize street signs using a cascade classifier and support vector machines SVMs Identify emotional expressions in human faces using convolutional neural networks CNNs and SVMs Strengthen your OpenCV2 skills and learn how to use new OpenCV3 features In Detail OpenCV is a state of art computer vision library that allows a great variety of image and video processing operations OpenCV for Python enables us to run computer vision algorithms in real time This learning path proposes to teach the following topics First we will learn how to get started with OpenCV and OpenCV3's Python API and develop a computer vision application that tracks body parts Then we will build amazing intermediate level computer vision applications such as making an object disappear from an image identifying different shapes reconstructing a 3D map from images and building an augmented reality application Finally we'll move to more advanced projects such as hand gesture recognition tracking visually salient objects as well as recognizing traffic signs and emotions on faces using support vector machines and multi layer perceptrons respectively This Learning Path combines some of the best that Packt has to offer in one complete curated package It includes content from the following Packt products OpenCV Computer Vision with Python by Joseph Howse OpenCV with Python By Example by Prateek Joshi OpenCV with Python Blueprints by Michael Beyeler Style and approach This course aims to create a smooth learning path that will teach you how to get started with will learn how to get started with OpenCV and OpenCV 3's Python API and develop superb computer vision applications Through this comprehensive course you'll learn to create computer vision applications from scratch to finish and more

OpenCV for Secret Agents Joseph Howse,2015-01-28 This book is for programmers who want to expand their skills by building fun smart and useful systems with OpenCV The projects are ideal in helping you to think creatively about the uses of computer vision natural user interfaces and ubiquitous computers in your home car and hand

Android Application Programming with OpenCV Joseph Howse,2013-09-25 A step by step tutorial to help you master computer vision and mobile app development This book is for Java developers who are new to computer vision and who would like to learn about how it is used in relation to application development It is assumed that you have previous experience in Java but not necessarily Android A basic understanding of image data for example pixels and color channels would be helpful too You are expected to have a mobile device running Android 2.2 Froyo or greater and it must have a camera

OpenCV with Python By Example Prateek Joshi,2015-09-22 Build real world computer vision

applications and develop cool demos using OpenCV for Python About This Book Learn how to apply complex visual effects to images using geometric transformations and image filters Extract features from an image and use them to develop advanced applications Build algorithms to help you understand the image content and perform visual searches Who This Book Is For This book is intended for Python developers who are new to OpenCV and want to develop computer vision applications with OpenCV Python This book is also useful for generic software developers who want to deploy computer vision applications on the cloud It would be helpful to have some familiarity with basic mathematical concepts such as vectors matrices and so on What You Will Learn Apply geometric transformations to images perform image filtering and convert an image into a cartoon like image Detect and track various body parts such as the face nose eyes ears and mouth Stitch multiple images of a scene together to create a panoramic image Make an object disappear from an image Identify different shapes segment an image and track an object in a live video Recognize an object in an image and build a visual search engine Reconstruct a 3D map from images Build an augmented reality application In Detail Computer vision is found everywhere in modern technology OpenCV for Python enables us to run computer vision algorithms in real time With the advent of powerful machines we are getting more processing power to work with Using this technology we can seamlessly integrate our computer vision applications into the cloud Web developers can develop complex applications without having to reinvent the wheel This book will walk you through all the building blocks needed to build amazing computer vision applications with ease We start off with applying geometric transformations to images We then discuss affine and projective transformations and see how we can use them to apply cool geometric effects to photos We will then cover techniques used for object recognition 3D reconstruction stereo imaging and other computer vision applications This book will also provide clear examples written in Python to build OpenCV applications The book starts off with simple beginner s level tasks such as basic processing and handling images image mapping and detecting images It also covers popular OpenCV libraries with the help of examples The book is a practical tutorial that covers various examples at different levels teaching you about the different functions of OpenCV and their actual implementation Style and approach This is a conversational style book filled with hands on examples that are really easy to understand Each topic is explained very clearly and is followed by a programmatic implementation so that the concept is solidified Each topic contributes to something bigger in the following chapters which helps you understand how to piece things together to build something big and complex

OpenCV By Example Prateek Joshi,David Millan Escrive,Vinicius Godoy,2016-01-22 Enhance your understanding of Computer Vision and image processing by developing real world projects in OpenCV 3 About This Book Get to grips with the basics of Computer Vision and image processing This is a step by step guide to developing several real world Computer Vision projects using OpenCV 3 This book takes a special focus on working with Tesseract OCR a free open source library to recognize text in images Who This Book Is For If you are a software developer with a basic understanding of Computer Vision and image processing and want to

develop interesting Computer Vision applications with Open CV this is the book for you Knowledge of C is required What You Will Learn Install OpenCV 3 on your operating system Create the required CMake scripts to compile the C application and manage its dependencies Get to grips with the Computer Vision workflows and understand the basic image matrix format and filters Understand the segmentation and feature extraction techniques Remove backgrounds from a static scene to identify moving objects for video surveillance Track different objects in a live video using various techniques Use the new OpenCV functions for text detection and recognition with Tesseract In Detail Open CV is a cross platform free for use library that is primarily used for real time Computer Vision and image processing It is considered to be one of the best open source libraries that helps developers focus on constructing complete projects on image processing motion detection and image segmentation Whether you are completely new to the concept of Computer Vision or have a basic understanding of it this book will be your guide to understanding the basic OpenCV concepts and algorithms through amazing real world examples and projects Starting from the installation of OpenCV on your system and understanding the basics of image processing we swiftly move on to creating optical flow video analysis or text recognition in complex scenes and will take you through the commonly used Computer Vision techniques to build your own Open CV projects from scratch By the end of this book you will be familiar with the basics of Open CV such as matrix operations filters and histograms as well as more advanced concepts such as segmentation machine learning complex video analysis and text recognition Style and approach This book is a practical guide with lots of tips and is closely focused on developing Computer vision applications with OpenCV Beginning with the fundamentals the complexity increases with each chapter Sample applications are developed throughout the book that you can execute and use in your own projects [Computer Vision for the Web](#) Foat Akhmadeev,2015-10-14 Unleash the power of the Computer Vision algorithms in JavaScript to develop vision enabled web content About This Book Explore the exciting world of image processing and face and gesture recognition and implement them in your website Develop wonderful web projects to implement Computer Vision algorithms in an effective way A fast paced guide to help you deal with real world Computer Vision applications using JavaScript libraries Who This Book Is For If you have an interest in Computer Vision or wish to apply Computer Vision algorithms such as face custom object and gesture recognition for an online application then this book is ideal for you Prior understanding of the JavaScript language and core mathematical concepts is recommended What You Will Learn Apply complex Computer Vision algorithms in your applications using JavaScript Put together different JavaScript libraries to discover objects in photos Get to grips with developing simple computer vision applications on your own Understand when and why you should use different computer vision methods Apply various image filters to images and videos Recognize and track many different objects including face and face particles using powerful face recognition algorithms Explore ways to control your browser without touching the mouse or keyboard In Detail JavaScript is a dynamic and prototype based programming language supported by every browser today JavaScript libraries boast

outstanding functionalities that enable you to furnish your own Computer Vision projects making it easier to develop JavaScript based applications especially for web centric technologies It makes the implementation of Computer Vision algorithms easier as it supports scheme based functional programming This book will give you an insight into controlling your applications with gestures and head motion and readying them for the web Packed with real world tasks it begins with a walkthrough of the basic concepts of Computer Vision that the JavaScript world offers us and you ll implement various powerful algorithms in your own online application Then we move on to a comprehensive analysis of JavaScript functions and their applications Furthermore the book will show you how to implement filters and image segmentation and use tracking js and jsfeat libraries to convert your browser into Photoshop Subjects such as object and custom detection feature extraction and object matching are covered to help you find an object in a photo You will see how a complex object such as a face can be recognized by a browser as you move toward the end of the book Finally you will focus on algorithms to create a human interface By the end of this book you will be familiarized with the application of complex Computer Vision algorithms to develop your own applications without spending much time learning sophisticated theory Style and approach This book is an easy to follow project based guide that throws you directly into the excitement of the Computer Vision theme A more in less approach is followed by important concepts explained in a to the point easy to understand manner

OpenCV 3 Computer Vision Application Programming Cookbook - Third Edition Robert Laganieri,2016-12-30 Over 100 recipes to help you build computer vision applications that make the most of the popular C library OpenCV 3About This Book Written to the latest gold standard specification of OpenCV 3 Master OpenCV the open source library of the computer vision community Master fundamental concepts in computer vision and image processing Learn about the important classes and functions of OpenCV with complete working examples applied to real imagesWho This Book Is ForOpenCV 3 Computer Vision Application Programming Cookbook Third Edition is appropriate for novice C programmers who want to learn how to use the OpenCV library to build computer vision applications It is also suitable for professional software developers who wish to be introduced to the concepts of computer vision programming It can also be used as a companion book for university level computer vision courses It constitutes an excellent reference for graduate students and researchers in image processing and computer vision What You Will Learn Install and create a program using the OpenCV library Process an image by manipulating its pixels Analyze an image using histograms Segment images into homogenous regions and extract meaningful objects Apply image filters to enhance image content Exploit the image geometry in order to relay different views of a pictured scene Calibrate the camera from different image observations Detect faces and people in images using machine learning techniquesIn DetailMaking your applications see has never been easier with OpenCV With it you can teach your robot how to follow your cat write a program to correctly identify the members of One Direction or even help you find the right colors for your redecoration OpenCV 3 Computer Vision Application Programming Cookbook Third Edition provides a complete introduction

to the OpenCV library and explains how to build your first computer vision program You will be presented with a variety of computer vision algorithms and exposed to important concepts in image and video analysis that will enable you to build your own computer vision applications This book helps you to get started with the library and shows you how to install and deploy the OpenCV library to write effective computer vision applications following good programming practices You will learn how to read and write images and manipulate their pixels Different techniques for image enhancement and shape analysis will be presented You will learn how to detect specific image features such as lines circles or corners You will be introduced to the concepts of mathematical morphology and image filtering The most recent methods for image matching and object recognition are described and you ll discover how to process video from files or cameras as well as how to detect and track moving objects Techniques to achieve camera calibration and perform multiple view analysis will also be explained Finally you ll also get acquainted with recent approaches in machine learning and object classification

Image Processing with ImageJ Jurjen Broeke, Jose Maria Mateos Perez, Javier Pascau, 2015-11-30 Extract and analyze data from complex images with ImageJ the world s leading image processing tool About This Book Design automated image processing solutions and speed up image processing tasks with ImageJ Create quality and intuitive interfaces for image processing by developing a basic framework for ImageJ plugins Tackle even the most sophisticated datasets and complex images Who This Book Is For The book has been created for engineers scientists and developers eager to tackle image processing with one of the leading tools available No prior knowledge of ImageJ is needed Familiarity with Java programming will be required for readers to code their own routines using ImageJ What You Will Learn Install and set up ImageJ for image processing Process images using ImageJ s built in tools Create macros to perform repetitive processing tasks Set up and use an integrated development environment for ImageJ plugins Create plugins with a user friendly interface for processing Use established ImageJ plugins for processing and quantification Generate a simple interface based on a real world example and create other interfaces for other projects Speed up interface development by setting multiple parameters interactively In Detail Advances in image processing have been vital for the scientific and technological communities making it possible to analyze images in greater detail than ever before But as images become larger and more complex advanced processing techniques are required ImageJ is built for the modern challenges of image processing it s one of the key tools in its development letting you automate basic tasks so you can focus on sophisticated in depth analysis This book demonstrates how to put ImageJ into practice It outlines its key features and demonstrates how to create your own image processing applications using macros and ImageJ plugins Once you ve got to grips with the basics of ImageJ you ll then discover how to build a number of different image processing solutions From simple tasks to advanced and automated image processing you ll gain confidence with this innovative and powerful tool however and whatever you are using it for Style and approach A step by step guide to image processing and developing macros and plugins in ImageJ The book will progress from using the built in tools to macros and finally plugins for

image processing *OpenCV Computer Vision Application Programming Cookbook*, 2014 OpenCV Android Programming By Example Amgad Muhammad, 2015-12-15

Develop vision aware and intelligent Android applications with the robust OpenCV library

About This Book This is the most up to date book on OpenCV Android programming on the market at the moment There is no direct competition for our title Based on a technology that is increasing in popularity proven by activity in forums related to this topic This book uniquely covers applications such as the Panoramic viewer and Automatic Selfie among others

Who This Book Is For If you are an Android developer and want to know how to implement vision aware applications using OpenCV then this book is definitely for you It would be very helpful if you understand the basics of image processing and computer vision but no prior experience is required

What You Will Learn Identify and install all the elements needed to start building vision aware Android applications Explore image representation colored and gray scale Recognize and apply convolution operations and filtering to deal with noisy data Use different shape analysis techniques Extract and identify interest points in an image Understand and perform object detection Run native computer vision algorithms and gain performance boosts

In Detail Starting from the basics of computer vision and OpenCV we ll take you all the way to creating exciting applications You will discover that though computer vision is a challenging subject the ideas and algorithms used are simple and intuitive and you will appreciate the abstraction layer that OpenCV uses to do the heavy lifting for you Packed with many examples the book will help you understand the main data structures used within OpenCV and how you can use them to gain performance boosts

Next we will discuss and use several image processing algorithms such as histogram equalization filters and color space conversion You then will learn about image gradients and how they are used in many shape analysis techniques such as edge detection Hough Line Transform and Hough Circle Transform In addition to using shape analysis to find things in images you will learn how to describe objects in images in a more robust way using different feature detectors and descriptors By the end of this book you will be able to make intelligent decisions using the famous Adaboost learning algorithm

Style and approach An easy to follow tutorial packed with hands on examples Each topic is explained and placed in context and the book supplies full details of the concepts used for added proficiency *OpenCV Computer Vision Application Programming Cookbook* Robert Laganière, 2011

OpenCV 3 Computer Vision Application Programming Cookbook is appropriate for novice C programmers who want to learn how to use the OpenCV library to build computer vision applications It is also suitable for professional software developers wishing to be introduced to the concepts of computer vision programming It can also be used as a companion book in a university level computer vision courses It constitutes an excellent reference for graduate students and researchers in image processing and computer vision Robot Vision: Teknik Membangun Robot Cerdas Masa Depan (Ed. Revisi) Dr. Widodo Budiharto, S.Si., M.Kom., Ir. Djoko Purwanto, M.Eng., Ph.D, Buku Robot Vision ini sangat tepat dibaca oleh pe ajar an peneliti dibidang Robotika Elektronika dan teknik informatika Buku ini merupakan buku pegangan utama pada mata kuliah Robotika Kecerdasan Buatan serta Robot vision

Menyajikan gambaran lengkap mengenai konsep robotika robot vision dan implementasi buku layak menjadi pegangan wajib bagi penggiat dunia robotika terutama untuk merancang robot cerdas berbasis vision Materi yang disajikan Konsep robotika dan robot vision Pemrograman robot menggunakan mikrokontroler Propeller Computer Vision dengan OpenCV dan EmguCV Pemrograman Robot dan Stereo vision Navigasi Robot Implementasi Robot Vision **Proceedings, 2016 International Conference on Computing, in Arabic** Rashid Saeed, Abdelrahman El Faki, 2016 Mastering OpenCV Android Application Programming Salil Kapur, Nisarg Thakkar, 2015-07-29 OpenCV is a famous computer vision library used to analyze and transform copious amounts of image data even in real time and on a mobile device This book focuses on leveraging mobile platforms to build interactive and useful applications The book starts off with an introduction to OpenCV and Android and how they interact with each other using OpenCV's Java API You'll also discover basic image processing techniques such as erosion and dilation of images before walking through how to build more complex applications such as object detection image stitching and face detection As you progress you will be introduced to OpenCV's machine learning framework enabling you to make your applications smarter The book ends with a short chapter covering useful Android tips and tricks and some common errors and solutions that people might face while building an application By the end of the book readers will have gained more expertise in building their own OpenCV projects for the Android platform and integrating OpenCV application programming into existing projects **Initiation au traitement d'images - Contours, couleurs, mouvements - Cours, exercices et TP corrigés** Franck Luthon, 2021-09-14 Le livre comporte une première partie de cours sur les images statiques traitement spatial de détection de contours couleur forme et sur les séquences vidéo dimension temporelle mouvement suivie d'une deuxième partie applicative avec soixante exercices corrigés et des sujets de travaux pratiques de programmation d'algorithmes simples Il s'adresse aux étudiants de master sciences et technologie ou les ingénieurs de toute discipline ainsi qu'à tout enseignant demandeur d'un manuel de cours contenant des sujets d'exercices et de programmation proposer ses étudiants OpenCV Computer Vision Application Programming Cookbook Second Edition Robert Laganière, 2014 Over 50 recipes to help you build computer vision applications in C using the OpenCV library In Detail OpenCV Computer Vision Application Programming Cookbook Second Edition is your guide to the development of computer vision applications The book shows you how to install and deploy the OpenCV library to write an effective computer vision application Different techniques for image enhancement pixel manipulation and shape analysis will be presented You will also learn how to process video from files or cameras and detect and track moving objects You will also be introduced to recent approaches in machine learning and object classification This book is a comprehensive reference guide that exposes you to practical and fundamental computer vision concepts illustrated by extensive examples What You Will Learn Install and create a program using the OpenCV library Process an image by manipulating its pixels Analyze an image using histograms Segment images into homogenous regions and extract meaningful objects Apply image filters to enhance image content Exploit image

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Opencv 2 Computer Vision Application Programming Cookbook Laganieri Robert Introduction

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