



**OpenCV**

# Opencv

**Kathleen Armour**



## **Opencv:**

*Learning OpenCV 3* Adrian Kaehler, Gary Bradski, 2016-12-14 Get started in the rapidly expanding field of computer vision with this practical guide Written by Adrian Kaehler and Gary Bradski creator of the open source OpenCV library this book provides a thorough introduction for developers academics roboticists and hobbyists You ll learn what it takes to build applications that enable computers to see and make decisions based on that data With over 500 functions that span many areas in vision OpenCV is used for commercial applications such as security medical imaging pattern and face recognition robotics and factory product inspection This book gives you a firm grounding in computer vision and OpenCV for building simple or sophisticated vision applications Hands on exercises in each chapter help you apply what you ve learned This volume covers the entire library in its modern C implementation including machine learning tools for computer vision Learn OpenCV data types array types and array operations Capture and store still and video images with HighGUI Transform images to stretch shrink warp remap and repair Explore pattern recognition including face detection Track objects and motion through the visual field Reconstruct 3D images from stereo vision Discover basic and advanced machine learning techniques in OpenCV

**Learning OpenCV** Gary Bradski, Adrian Kaehler, 2008-09-24 This library is useful for practitioners and is an excellent tool for those entering the field it is a set of computer vision algorithms that work as advertised William T Freeman Computer Science and Artificial Intelligence Laboratory Massachusetts Institute of Technology Learning OpenCV puts you in the middle of the rapidly expanding field of computer vision Written by the creators of the free open source OpenCV library this book introduces you to computer vision and demonstrates how you can quickly build applications that enable computers to see and make decisions based on that data Computer vision is everywhere in security systems manufacturing inspection systems medical image analysis Unmanned Aerial Vehicles and more It stitches Google maps and Google Earth together checks the pixels on LCD screens and makes sure the stitches in your shirt are sewn properly OpenCV provides an easy to use computer vision framework and a comprehensive library with more than 500 functions that can run vision code in real time Learning OpenCV will teach any developer or hobbyist to use the framework quickly with the help of hands on exercises in each chapter This book includes A thorough introduction to OpenCV Getting input from cameras Transforming images Segmenting images and shape matching Pattern recognition including face detection Tracking and motion in 2 and 3 dimensions 3D reconstruction from stereo vision Machine learning algorithms Getting machines to see is a challenging but entertaining goal Whether you want to build simple or sophisticated vision applications Learning OpenCV is the book you need to get started

**Computer Vision Projects with OpenCV and Python 3** Matthew Rever, 2018-12-28 Gain a working knowledge of advanced machine learning and explore Python s powerful tools for extracting data from images and videos Key Features Implement image classification and object detection using machine learning and deep learning Perform image classification object detection image segmentation and other Computer Vision tasks Crisp content

with a practical approach to solving real world problems in Computer Vision

**Book Description** Python is the ideal programming language for rapidly prototyping and developing production grade codes for image processing and Computer Vision with its robust syntax and wealth of powerful libraries This book will help you design and develop production grade Computer Vision projects tackling real world problems With the help of this book you will learn how to set up Anaconda and Python for the major OSes with cutting edge third party libraries for Computer Vision You ll learn state of the art techniques for classifying images finding and identifying human postures and detecting faces within videos You will use powerful machine learning tools such as OpenCV Dlib and TensorFlow to build exciting projects such as classifying handwritten digits detecting facial features and much more The book also covers some advanced projects such as reading text from license plates from real world images using Google s Tesseract software and tracking human body poses using DeeperCut within TensorFlow By the end of this book you will have the expertise required to build your own Computer Vision projects using Python and its associated libraries What you will learn

Install and run major Computer Vision packages within Python

Apply powerful support vector machines for simple digit classification

Understand deep learning with TensorFlow

Build a deep learning classifier for general images

Use LSTMs for automated image captioning

Read text from real world images

Extract human pose data from images

Who this book is for Python programmers and machine learning developers who wish to build exciting Computer Vision projects using the power of machine learning and OpenCV will find this book useful The only prerequisite for this book is that you should have a sound knowledge of Python programming

**OpenCV Computer Vision with Python** Joseph Howse,2013 A practical project based tutorial for Python developers and hobbyists who want to get started with computer vision with OpenCV and Python

**OpenCV Computer Vision with Python** is written for Python developers who are new to computer vision and want a practical guide to teach them the essentials Some understanding of image data for example pixels and color channels would be beneficial At a minimum you will need access to at least one webcam Certain exercises require additional hardware like a second webcam a Microsoft Kinect or an OpenNI compliant depth sensor such as the Asus Xtion PRO

**Mastering OpenCV 4 with Python** Alberto Fernández Villán,2019-03-29 Create advanced applications with Python and OpenCV exploring the potential of facial recognition machine learning deep learning web computing and augmented reality

**Key Features** Develop your computer vision skills by mastering algorithms in Open Source

**Computer Vision 4 OpenCV 4 and Python** Apply machine learning and deep learning techniques with TensorFlow and Keras

Discover the modern design patterns you should avoid when developing efficient computer vision applications

**Book Description** OpenCV is considered to be one of the best open source computer vision and machine learning software libraries It helps developers build complete projects in relation to image processing motion detection or image segmentation among many others OpenCV for Python enables you to run computer vision algorithms smoothly in real time combining the best of the OpenCV C API and the Python language In this book you ll get started by setting up OpenCV and delving into the key

concepts of computer vision You'll then proceed to study more advanced concepts and discover the full potential of OpenCV The book will also introduce you to the creation of advanced applications using Python and OpenCV enabling you to develop applications that include facial recognition target tracking or augmented reality Next you'll learn machine learning techniques and concepts understand how to apply them in real world examples and also explore their benefits including real time data production and faster data processing You'll also discover how to translate the functionality provided by OpenCV into optimized application code projects using Python bindings Toward the concluding chapters you'll explore the application of artificial intelligence and deep learning techniques using the popular Python libraries TensorFlow and Keras By the end of this book you'll be able to develop advanced computer vision applications to meet your customers demands What you will learn Handle files and images and explore various image processing techniques Explore image transformations including translation resizing and cropping Gain insights into building histograms Brush up on contour detection filtering and drawing Work with Augmented Reality to build marker based and markerless applications Work with the main machine learning algorithms in OpenCV Explore the deep learning Python libraries and OpenCV deep learning capabilities Create computer vision and deep learning web applications Who this book is for This book is designed for computer vision developers engineers and researchers who want to develop modern computer vision applications Basic experience of OpenCV and Python programming is a must

**OpenCV 3 Computer Vision with Python Cookbook** Aleksei Spizhevoi, Aleksandr Rybnikov, 2018-03-23 OpenCV 3 is a native cross platform library for computer vision machine learning and image processing OpenCV's convenient high level APIs hide very powerful internals designed for computational efficiency that can take advantage of multicore and GPU processing This book will help you tackle increasingly challenging computer vision problems

OpenCV Essentials Oscar Deniz Suarez, M<sup>a</sup> del Milagro Fernández Carrobles, Noelia Vázquez Enano, Gloria Bueno García, Ismael Serrano Gracia, Julio Alberto Patón Incertis, Jesus Salido Tercero, 2014-08-25 This book is intended for C developers who want to learn how to implement the main techniques of OpenCV and get started with it quickly Working experience with computer vision image processing is expected

**OpenCV 3.0 Computer Vision with Java** Daniel Lélis Baggio, 2015-07-30 OpenCV 3.0 Computer Vision with Java is a practical tutorial guide that explains fundamental tasks from computer vision while focusing on Java development This book will teach you how to set up OpenCV for Java and handle matrices using the basic operations of image processing such as filtering and image transforms It will also help you learn how to use Haar cascades for tracking faces and to detect foreground and background regions with the help of a Kinect device It will even give you insights into server side OpenCV Each chapter is presented with several projects that are ready to use The functionality of these projects is found in many classes that allow developers to understand computer vision principles and rapidly extend or customize the projects for their needs

**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 4 for Secret Agents** Joseph Howse, 2019-04-30 Turn futuristic ideas about computer vision and machine learning into demonstrations that are both functional and entertaining Key Features Build OpenCV 4 apps with Python 2 and 3 on desktops and Raspberry Pi Java on Android and C in Unity Detect classify recognize and measure real world objects in real time Work with images from diverse sources including the web research datasets and various cameras Book Description OpenCV 4 is a collection of image processing functions and computer vision algorithms It is open source supports many programming languages and platforms and is fast enough for many real time applications With this

handy library you'll be able to build a variety of impressive gadgets. OpenCV 4 for Secret Agents features a broad selection of projects based on computer vision, machine learning, and several application frameworks. To enable you to build apps for diverse desktop systems and Raspberry Pi, the book supports multiple Python versions from 2.7 to 3.7. For Android app development, the book also supports Java in Android Studio and C in the Unity game engine. Taking inspiration from the world of James Bond, this book will add a touch of adventure and computer vision to your daily routine. You'll be able to protect your home and car with intelligent camera systems that analyze obstacles, people, and even cats. In addition to this, you'll also learn how to train a search engine to praise or criticize the images that it finds and build a mobile app that speaks to you and responds to your body language. By the end of this book, you will be equipped with the knowledge you need to advance your skills as an app developer and a computer vision specialist. What you will learn:

- Detect motion and recognize gestures to control a smartphone game.
- Detect car headlights and estimate their distance.
- Detect and recognize human and cat faces to trigger an alarm.
- Amplify motion in a real-time video to show heartbeats and breaths.
- Make a physics simulation that detects shapes in a real-world drawing.

Build OpenCV 4 projects in Python 3 for desktops and Raspberry Pi. Develop OpenCV 4 Android applications in Android Studio and Unity. Who this book is for: If you are an experienced software developer who is new to computer vision or machine learning and wants to study these topics through creative projects, then this book is for you. The book will also help existing OpenCV users who want to upgrade their projects to OpenCV 4 and new versions of other libraries, languages, tools, and operating systems. General familiarity with object-oriented programming, application development, and usage of operating systems, OS developer tools, and the command line is required.

**Learn OpenCV 4.5 with Python 3.7**

**by Examples** James Chen, What This Book is About: When you searched for this book, you have already known the importance of the OpenCV Python in the fields of computer vision, image processing, and machine learning. This book begins with step-by-step instructions of installation, as well as a simple Hello World, then gets into the OpenCV Basics, Image Processing, Object Detection, and finally Machine Learning. Key Features: Example for every topic; all the source codes are available in Github; Line-by-line explanation of the source codes; Focus mainly on implementation of algorithms rather than mathematical theories. Whom This Book Is For: This book is for people with a variety of computer programming levels, from those with very limited knowledge of computer vision to the experienced ones. The readers do not need to have previous experiences of Python or OpenCV. No matter you are a beginner or experienced programmer, as long as you want to learn OpenCV with Python, you will benefit from this book.

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Mendonça, Prateek Joshi, 2018-11-30 Explore OpenCV 4 to create visually appealing cross platform computer vision  
applications Key Features Understand basic OpenCV 4 concepts and algorithms Grasp advanced OpenCV techniques such as  
3D reconstruction machine learning and artificial neural networks Work with Tesseract OCR an open source library to  
recognize text in images Book Description OpenCV is one of the best open source libraries available and can help you focus  
on constructing complete projects on image processing motion detection and image segmentation Whether you re completely  
new to computer vision or have a basic understanding of its concepts Learn OpenCV 4 by Building Projects Second edition  
will be your guide to understanding OpenCV concepts and algorithms through real world examples and projects You ll begin  
with the installation of OpenCV and the basics of image processing Then you ll cover user interfaces and get deeper into  
image processing As you progress through the book you ll learn complex computer vision algorithms and explore machine  
learning and face detection The book then guides you in creating optical flow video analysis and background subtraction in  
complex scenes In the concluding chapters you ll also learn about text segmentation and recognition and understand the  
basics of the new and improved deep learning module By the end of this book you ll be familiar with the basics of Open CV  
such as matrix operations filters and histograms and you ll have mastered commonly used computer vision techniques to  
build OpenCV projects from scratch What you will learn Install OpenCV 4 on your operating system Create CMake scripts to  
compile your C application Understand basic image matrix formats and filters Explore segmentation and feature extraction  
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applications with OpenCV Learn OpenCV 4 by Building Projects for you Prior knowledge of C will help you understand the  
concepts covered in this book [OpenCV with Python](#) Panchanand Jha, 2020-09-16 Image processing is a technique to  
analyse and extract valuable information from an image using computer vision algorithms Mathematically an image is  
nothing but two dimensional matrix and function of two coordinate x and y The x and y coordinates gives location of pixel and

it value This value of pixel defines the brightness or color of an image at that location On the other hand image can also have three dimensional vector such as Red Green and Blue RGB Therefore it is quite important to have mathematical description of an image to develop further image processing algorithms These algorithms have wide range of applications such as image stitching morphing object detections recognition color filtering etc Present scenario of computer vision or digital imaging has been widely adopted in various places such as security camera robotics vision movies special effects and counting The extreme use of image or video processing or one can say the major application of the image video processing algorithms is to generate special effects on movies In daily life we can find wide net of computer vision and it is keep on expanding On the other hand automobiles aircrafts drones ships and trains are equipped with computer vision Automobiles using computer vision for rear parking assistance drones for surveillances and so on Now a day s major use of computer vision can also be found in social network sites such as Facebook Google YouTube Lens kart etc in these sites image video processing with facial recognition algorithm is being used If someone upload a video on YouTube then it has to pass through video processing algorithm for various reasons Therefore OpenCv plays a crucial role here for processing these images and videos In OpenCV library multiple algorithms and function are available to perform certain task for example any image can be resized cropped format pasting or overlapping of two images rotating flipping drawing color transformations etc can be done with simple line of code In further chapter the details of these codes are explained OpenCV is capable of optimizing memory handlings error handlings multi threading and re enterability These properties of OpenCV makes it computationally efficient and best for real time practical implementations More details of OpenCV can be found in the OpenCV official website as this project is focused on image video processing

*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

*Machine Learning for OpenCV* Michael Beyeler,2017-07-14 Expand your OpenCV knowledge and master key concepts of machine learning using this practical hands on guide About This Book Load store edit and visualize data using OpenCV and Python Grasp the fundamental concepts of classification regression and clustering Understand perform and experiment with machine learning techniques using this easy to follow guide Evaluate compare and choose the right algorithm for any task Who This Book Is For This book targets Python programmers who are already familiar with OpenCV this book will give you the tools and understanding required to build your own machine learning systems tailored to practical real world tasks What You Will Learn Explore and make effective use of OpenCV s machine learning module Learn deep learning for computer vision with Python Master linear

regression and regularization techniques Classify objects such as flower species handwritten digits and pedestrians Explore the effective use of support vector machines boosted decision trees and random forests Get acquainted with neural networks and Deep Learning to address real world problems Discover hidden structures in your data using k means clustering Get to grips with data pre processing and feature engineering In Detail Machine learning is no longer just a buzzword it is all around us from protecting your email to automatically tagging friends in pictures to predicting what movies you like Computer vision is one of today s most exciting application fields of machine learning with Deep Learning driving innovative systems such as self driving cars and Google s DeepMind OpenCV lies at the intersection of these topics providing a comprehensive open source library for classic as well as state of the art computer vision and machine learning algorithms In combination with Python Anaconda you will have access to all the open source computing libraries you could possibly ask for Machine learning for OpenCV begins by introducing you to the essential concepts of statistical learning such as classification and regression Once all the basics are covered you will start exploring various algorithms such as decision trees support vector machines and Bayesian networks and learn how to combine them with other OpenCV functionality As the book progresses so will your machine learning skills until you are ready to take on today s hottest topic in the field Deep Learning By the end of this book you will be ready to take on your own machine learning problems either by building on the existing source code or developing your own algorithm from scratch Style and approach OpenCV machine learning connects the fundamental theoretical principles behind machine learning to their practical applications in a way that focuses on asking and answering the right questions This book walks you through the key elements of OpenCV and its powerful machine learning classes while demonstrating how to get to grips with a range of models

**OpenCV Computer Vision with Python** Joseph Howse, 2015-01-07 Learn to capture videos manipulate images and track objects with Python using the OpenCV Library Overview Set up OpenCV its Python bindings and optional Kinect drivers on Windows Mac or Ubuntu Create an application that tracks and manipulates faces Identify face regions using normal color images and depth images In Detail Computer Vision can reach consumers in various contexts via webcams camera phones and gaming sensors like Kinect OpenCV s Python bindings can help developers meet these consumer demands for applications that capture images change their appearance and extract information from them in a high level language and in a standardized data format that is interoperable with scientific libraries such as NumPy and SciPy OpenCV Computer Vision with Python is a practical hands on guide that covers the fundamental tasks of computer vision capturing filtering and analyzing images with step by step instructions for writing both an application and reusable library classes OpenCV Computer Vision with Python shows you how to use the Python bindings for OpenCV By following clear and concise examples you will develop a computer vision application that tracks faces in live video and applies special effects to them If you have always wanted to learn which version of these bindings to use how to integrate with cross platform Kinect drivers and and how to efficiently process image

data with NumPy and SciPy then this book is for you What you will learn from this book Install OpenCV and related software such as Python NumPy SciPy OpenNI and SensorKinect all on Windows Mac or Ubuntu Capture display and save photos and real time videos Handle window events and input events using OpenCV s HighGui module or Pygame Understand OpenCV s image format and how to perform efficient operations on OpenCV images with NumPy and SciPy Apply curves and other color transformations to simulate the look of old photos movies or video games Apply an effect only to edges in an image Copy and resize segments of an image Apply an effect only to certain depths in an image by using data from a depth sensor such as Kinect Track faces eyes noses and mouths by using prebuilt datasets Track arbitrary objects by creating original datasets Approach A practical project based tutorial for Python developers and hobbyists who want to get started with computer vision with OpenCV and Python Who this book is written for OpenCV Computer Vision with Python is written for Python developers who are new to computer vision and want a practical guide to teach them the essentials Some understanding of image data for example pixels and color channels would be beneficial At a minimum you will need access to at least one webcam Certain exercises require additional hardware like a second webcam a Microsoft Kinect or an OpenNI compliant depth sensor such as the Asus Xtion PRO [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 application 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

**Mastering OpenCV 4** Roy Shilkrot, David Millán Escrivá, 2018-12-27 Work on practical computer vision projects covering advanced object detector techniques and modern deep learning and machine learning algorithms Key Features Learn about the new features that help unlock the full potential of OpenCV 4 Build face detection applications with a cascade classifier using face landmarks Create an optical character recognition OCR model using deep learning and convolutional neural networks Book Description Mastering OpenCV now in its third edition targets computer vision engineers taking their first steps toward mastering OpenCV Keeping the mathematical formulations to a solid but bare minimum the book delivers complete projects from ideation to running code targeting current hot topics in computer vision such as face recognition landmark detection and pose estimation and number recognition with deep convolutional networks You ll learn from experienced OpenCV experts how to implement computer vision products and projects both in academia and industry in a comfortable package You ll get acquainted with API functionality and gain insights into design choices in a complete computer vision project You ll also go beyond the basics of computer vision to implement solutions for complex image processing projects By the end of the book you will have created various working prototypes with the help of projects in the book and be well versed with the new features of OpenCV 4 What you will learn Build real world computer vision problems with working OpenCV code samples Uncover best practices in engineering and maintaining OpenCV projects Explore algorithmic design approaches for complex computer vision tasks Work with OpenCV s most updated API v4 0 0 through projects Understand 3D scene reconstruction and Structure from Motion SfM Study camera calibration and overlay AR using the ArUco Module Who this book is for This book is for those who have a basic knowledge of OpenCV and are competent C programmers You need to have an understanding of some of the more theoretical mathematical concepts as we move quite quickly throughout the book

OpenCV 3.x with Python By Example Gabriel Garrido Calvo, Prateek Joshi, 2018-01-17 Learn the techniques for object recognition 3D reconstruction stereo imaging and other computer vision applications using examples on different functions of OpenCV Key Features Learn how to apply complex visual effects to images with OpenCV 3 x and Python Extract features

from an image and use them to develop advanced applications Build algorithms to help you understand image content and perform visual searches Get to grips with advanced techniques in OpenCV such as machine learning artificial neural network 3D reconstruction and augmented reality Book Description 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 have more processing power to work with Using this technology we can seamlessly integrate our computer vision applications into the cloud Focusing on OpenCV 3 x and Python 3 6 this book will walk you through all the building blocks needed to build amazing computer vision applications with ease We start off by manipulating images using simple filtering and geometric transformations We then discuss affine and projective transformations and see how we can use them to apply cool advanced manipulations to your photos like resizing them while keeping the content intact or smoothly removing undesired elements We will then cover techniques of object tracking body part recognition and object recognition using advanced techniques of machine learning such as artificial neural network 3D reconstruction and augmented reality techniques are also included The book covers popular OpenCV libraries with the help of examples This book is a practical tutorial that covers various examples at different levels teaching you about the different functions of OpenCV and their actual implementation By the end of this book you will have acquired the skills to use OpenCV and Python to develop real world computer vision applications What you will learn Detect shapes and edges from images and videos How to apply filters on images and videos Use different techniques to manipulate and improve images Extract and manipulate particular parts of images and videos Track objects or colors from videos Recognize specific object or faces from images and videos How to create Augmented Reality applications Apply artificial neural networks and machine learning to improve object recognition 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 and 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

**Computer Vision with OpenCV 3 and Qt5** Amin Ahmadi Tazehkandi,2018-01-02 Blend the power of Qt with OpenCV to build cross platform computer vision applications Key Features Start creating robust applications with the power of OpenCV and Qt combined Learn from scratch how to develop cross platform computer vision applications Accentuate your OpenCV applications by developing them with Qt Book Description Developers have been using OpenCV library to develop computer vision applications for a long time However they now need a more effective tool to get the job done and in a much better and modern way Qt is one of the major frameworks available for this task at the moment This book will teach you to develop applications with the combination of OpenCV 3 and Qt5 and how to create cross platform computer vision applications We ll begin by introducing Qt its IDE and its SDK Next you ll learn how to use the OpenCV API to integrate both tools and see how to configure Qt to use OpenCV You ll go on to build a full fledged computer vision application throughout the book Later you

ll create a stunning UI application using the Qt widgets technology where you ll display the images after they are processed in an efficient way At the end of the book you ll learn how to convert OpenCV Mat to Qt QImage You ll also see how to efficiently process images to filter them transform them detect or track objects as well as analyze video You ll become better at developing OpenCV applications What you will learn Get an introduction to Qt IDE and SDK Be introduced to OpenCV and see how to communicate between OpenCV and Qt Understand how to create UI using Qt Widgets Learn to develop cross platform applications using OpenCV 3 and Qt 5 Explore the multithreaded application development features of Qt5 Improve OpenCV 3 application development using Qt5 Build test and deploy Qt and OpenCV apps either dynamically or statically See Computer Vision technologies such as filtering and transformation of images detecting and matching objects template matching object tracking video and motion analysis and much more Be introduced to QML and Qt Quick for iOS and Android application development Who this book is for This book is for readers interested in building computer vision applications Intermediate knowledge of C programming is expected Even though no knowledge of Qt5 and OpenCV 3 is assumed if you re familiar with these frameworks you ll benefit

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