

mbeyeler/**opencv-python-blueprints**



M. Beyeler (2015). OpenCV with Python Blueprints:
Design and develop advanced computer vision
projects using OpenCV with Python, Packt
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Opencv Blueprints

**Menua Gevorgyan, Arsen
Mamikonyan, Michael Beyeler**

Opencv Blueprints:

OpenCV with Python Blueprints Michael Beyeler, 2015-10-19 Design and develop advanced computer vision projects using OpenCV with Python About This Book Program advanced computer vision applications in Python using different features of the OpenCV library Practical end to end project covering an important computer vision problem All projects in the book include a step by step guide to create computer vision applications Who This Book Is For This book is for intermediate users of OpenCV who aim to master their skills by developing advanced practical applications Readers are expected to be familiar with OpenCV s concepts and Python libraries Basic knowledge of Python programming is expected and assumed What You Will Learn Generate real time visual effects using different filters and image manipulation techniques such as dodging and burning Recognize hand gestures in real time and perform hand shape analysis based on the output of a Microsoft Kinect sensor Learn feature extraction and feature matching for tracking arbitrary objects of interest Reconstruct a 3D real world scene from 2D camera motion and common camera reprojection techniques Track visually salient objects by searching for and focusing on important regions of an image Detect faces using a cascade classifier and recognize emotional expressions in human faces using multi layer peceptrons MLPs Recognize street signs using a multi class adaptation of support vector machines SVMs Strengthen your OpenCV2 skills and learn how to use new OpenCV3 features In Detail OpenCV is a native cross platform C Library for computer vision machine learning and image processing It is increasingly being adopted in Python for development OpenCV has C C Python and Java interfaces with support for Windows Linux Mac iOS and Android Developers using OpenCV build applications to process visual data this can include live streaming data from a device like a camera such as photographs or videos OpenCV offers extensive libraries with over 500 functions This book demonstrates how to develop a series of intermediate to advanced projects using OpenCV and Python rather than teaching the core concepts of OpenCV in theoretical lessons Instead the working projects developed in this book teach the reader how to apply their theoretical knowledge to topics such as image manipulation augmented reality object tracking 3D scene reconstruction statistical learning and object categorization By the end of this book readers will be OpenCV experts whose newly gained experience allows them to develop their own advanced computer vision applications Style and approach This book covers independent hands on projects that teach important computer vision concepts like image processing and machine learning for OpenCV with multiple examples

OpenCV 4 with Python Blueprints Dr. Menua Gevorgyan, Arsen Mamikonyan, Michael Beyeler, 2020-03-20 Get to grips with traditional computer vision algorithms and deep learning approaches and build real world applications with OpenCV and other machine learning frameworks Key Features Understand how to capture high quality image data detect and track objects and process the actions of animals or humans Implement your learning in different areas of computer vision Explore advanced concepts in OpenCV such as machine learning artificial neural network and augmented reality Book Description OpenCV is a native cross platform C library for computer vision

machine learning and image processing It is increasingly being adopted in Python for development This book will get you hands on with a wide range of intermediate to advanced projects using the latest version of the framework and language OpenCV 4 and Python 3.8 instead of only covering the core concepts of OpenCV in theoretical lessons This updated second edition will guide you through working on independent hands on projects that focus on essential OpenCV concepts such as image processing object detection image manipulation object tracking and 3D scene reconstruction in addition to statistical learning and neural networks You'll begin with concepts such as image filters Kinect depth sensor and feature matching As you advance you'll not only get hands on with reconstructing and visualizing a scene in 3D but also learn to track visually salient objects The book will help you further build on your skills by demonstrating how to recognize traffic signs and emotions on faces Later you'll understand how to align images and detect and track objects using neural networks By the end of this OpenCV Python book you'll have gained hands on experience and become proficient at developing advanced computer vision apps according to specific business needs What you will learn

- Generate real time visual effects using filters and image manipulation techniques such as dodging and burning
- Recognize hand gestures in real time and perform hand shape analysis based on the output of a Microsoft Kinect sensor
- Learn feature extraction and feature matching to track arbitrary objects of interest
- Reconstruct a 3D real world scene using 2D camera motion and camera reprojection techniques
- Detect faces using a cascade classifier and identify emotions in human faces using multilayer perceptrons
- Classify, localize and detect objects with deep neural networks

Who this book is for This book is for intermediate level OpenCV users who are looking to enhance their skills by developing advanced applications Familiarity with OpenCV concepts and Python libraries and basic knowledge of the Python programming language are assumed

OpenCV 3 Blueprints Joseph Howse, Steven Puttemans, Quan Hua, Utkarsh Sinha, 2015-11-10

Expand your knowledge of computer vision by building amazing projects with OpenCV 3

About This Book Build computer vision projects to capture high quality image data detect and track objects process the actions of humans or animals and much more Discover practical and interesting innovations in computer vision while building atop a mature open source library OpenCV 3 Familiarize yourself with multiple approaches and theories wherever critical decisions need to be made

Who This Book Is For This book is ideal for you if you aspire to build computer vision systems that are smarter faster more complex and more practical than the competition This is an advanced book intended for those who already have some experience in setting up an OpenCV development environment and building applications with OpenCV You should be comfortable with computer vision concepts object oriented programming graphics programming IDEs and the command line

What You Will Learn

- Select and configure camera systems to see invisible light fast motion and distant objects
- Build a camera trap as used by nature photographers and process photos to create beautiful effects
- Develop a facial expression recognition system with various feature extraction techniques and machine learning methods
- Build a panorama Android application using the OpenCV stitching module in C with NDK support
- Optimize your object detection model make it

rotation invariant and apply scene specific constraints to make it faster and more robust Create a person identification and registration system based on biometric properties of that person such as their fingerprint iris and face Fuse data from videos and gyroscopes to stabilize videos shot from your mobile phone and create hyperlapse style videos In Detail Computer vision is becoming accessible to a large audience of software developers who can leverage mature libraries such as OpenCV However as they move beyond their first experiments in computer vision developers may struggle to ensure that their solutions are sufficiently well optimized well trained robust and adaptive in real world conditions With sufficient knowledge of OpenCV these developers will have enough confidence to go about creating projects in the field of computer vision This book will help you tackle increasingly challenging computer vision problems that you may face in your careers It makes use of OpenCV 3 to work around some interesting projects Inside these pages you will find practical and innovative approaches that are battle tested in the authors industry experience and research Each chapter covers the theory and practice of multiple complementary approaches so that you will be able to choose wisely in your future projects You will also gain insights into the architecture and algorithms that underpin OpenCV s functionality We begin by taking a critical look at inputs in order to decide which kinds of light cameras lenses and image formats are best suited to a given purpose We proceed to consider the finer aspects of computational photography as we build an automated camera to assist nature photographers You will gain a deep understanding of some of the most widely applicable and reliable techniques in object detection feature selection tracking and even biometric recognition We will also build Android projects in which we explore the complexities of camera motion first in panoramic image stitching and then in video stabilization By the end of the book you will have a much richer understanding of imaging motion machine learning and the architecture of computer vision libraries and applications Style and approach This book covers a combination of theory and practice We examine blueprints for specific projects and discuss the principles behind these blueprints in detail [OpenCV with Python Blueprints: Design and Develop Advanced Computer Vision Projects Using OpenCV with Python](#) Michael Beyeler,2015 [OpenCV 4 with Python Blueprints - Second Edition](#) Menua Gevorgyan,Arsen Mamikonyan,Michael Beyeler,2020 Get to grips with traditional computer vision algorithms and deep learning approaches and build real world applications with OpenCV and other machine learning frameworks Key Features Understand how to capture high quality image data detect and track objects and process the actions of animals or humans Implement your learning in different areas of computer vision Explore advanced concepts in OpenCV such as machine learning artificial neural network and augmented reality Book Description OpenCV is a native cross platform C library for computer vision machine learning and image processing It is increasingly being adopted in Python for development This book will get you hands on with a wide range of intermediate to advanced projects using the latest version of the framework and language OpenCV 4 and Python 3.8 instead of only covering the core concepts of OpenCV in theoretical lessons This updated second edition will guide you through working on independent hands on projects that

focus on essential OpenCV concepts such as image processing object detection image manipulation object tracking and 3D scene reconstruction in addition to statistical learning and neural networks You'll begin with concepts such as image filters Kinect depth sensor and feature matching As you advance you'll not only get hands on with reconstructing and visualizing a scene in 3D but also learn to track visually salient objects The book will help you further build on your skills by demonstrating how to recognize traffic signs and emotions on faces Later you'll understand how to align images and detect and track objects using neural networks By the end of this OpenCV Python book you'll have gained hands on experience and become proficient at developing advanced computer vision apps according to specific business needs What you will learn

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Who this book is for This book is for intermediate users of 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 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

iOS Application Development with OpenCV 3 Joseph Howse,2016-06-30 Create four mobile apps and explore the world through photography and computer vision About This Book Efficiently harness iOS and OpenCV to capture and process high quality images at high speed Develop photographic apps and augmented reality apps quickly and easily Detect recognize and morph faces and objects Who This Book Is For If you want to do computational photography and computer vision on Apple s mobile devices then this book is for you No previous experience with app development or OpenCV is required However basic knowledge of C or Objective C is recommended What You Will Learn Use Xcode and Interface Builder to develop iOS apps Obtain OpenCV s standard modules and build extra modules from source Control all the parameters of the iOS device s camera Capture save and share photos and videos Analyze colors shapes and textures in ordinary and specialized photographs Blend and compare images to create special photographic effects and augmented reality tools Detect faces and morph facial features Classify coins and other objects In Detail iOS Application Development with OpenCV 3 enables you to turn your smartphone camera into an advanced tool for photography and computer vision Using the highly optimized OpenCV library you will process high resolution images in real time You will locate and classify objects and create models of their geometry As you develop photo and augmented reality apps you will gain a general understanding of iOS frameworks and developer tools plus a deeper understanding of the camera and image APIs After completing the book s four projects you will be a well rounded iOS developer with valuable experience in OpenCV Style and approach The book is practical creative and precise It shows you the steps to create and customize five projects that solve important problems for beginners in mobile app development and computer vision Complete source code and numerous visual aids are included in each chapter Experimentation is an important part of the book You will use computer vision to explore the real world and then you will refine the projects based on your findings

Learning OpenCV 3 Computer Vision with Python Joe Minichino,2015 Unleash the power of computer vision with Python using OpenCV About This Book Create impressive applications with OpenCV and Python Familiarize yourself with advanced machine learning concepts Harness the power of computer vision with this easy to follow guide Who This Book Is For Intended for novices to the world of OpenCV and computer vision as well as OpenCV veterans that want to learn about what s new in OpenCV 3 this book is useful as a reference for experts and a training manual for beginners or for anybody who wants to familiarize themselves with the concepts of object classification and detection in simple and understandable terms Basic knowledge about Python and programming concepts is required although the book has an easy learning curve

both from a theoretical and coding point of view

What You Will Learn

- Install and familiarize yourself with OpenCV 3's Python API
- Grasp the basics of image processing and video analysis
- Identify and recognize objects in images and videos
- Detect and recognize faces using OpenCV
- Train and use your own object classifiers
- Learn about machine learning concepts in a computer vision context
- Work with artificial neural networks using OpenCV
- Develop your own computer vision real life application

In Detail

OpenCV 3 is a state of the art computer vision library that allows a great variety of image and video processing operations. Some of the more spectacular and futuristic features such as face recognition or object tracking are easily achievable with OpenCV 3. Learning the basic concepts behind computer vision algorithms, models, and OpenCV's API will enable the development of all sorts of real world applications including security and surveillance.

Starting with basic image processing operations, the book will take you through to advanced computer vision concepts. Computer vision is a rapidly evolving science whose applications in the real world are exploding, so this book will appeal to computer vision novices as well as experts of the subject wanting to learn the brand new OpenCV 3.0.0. You will build a theoretical foundation of image processing and video analysis and progress to the concepts of classification through machine learning, acquiring the technical know-how that will allow you to create and use object detectors and classifiers and even track objects in movies or video camera feeds. Finally, the journey will end in the world of artificial neural networks along with the development of a hand-written digits recognition application.

Style and approach

This book is a comprehensive guide to the brand new OpenCV 3 with Python to develop real life computer vision applications.

Learning OpenCV 3 Computer Vision with Python Joe Minichino, Joseph Howse, 2015-09-29

Unleash the power of computer vision with Python using OpenCV.

About This Book

Create impressive applications with OpenCV and Python. Familiarize yourself with advanced machine learning concepts. Harness the power of computer vision with this easy to follow guide.

Who This Book Is For

Intended for novices to the world of OpenCV and computer vision as well as OpenCV veterans that want to learn about what's new in OpenCV 3, this book is useful as a reference for experts and a training manual for beginners or for anybody who wants to familiarize themselves with the concepts of object classification and detection in simple and understandable terms. Basic knowledge about Python and programming concepts is required, although the book has an easy learning curve both from a theoretical and coding point of view.

What You Will Learn

- Install and familiarize yourself with OpenCV 3's Python API
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real world applications including security and surveillance Starting with basic image processing operations the book will take you through to advanced computer vision concepts Computer vision is a rapidly evolving science whose applications in the real world are exploding so this book will appeal to computer vision novices as well as experts of the subject wanting to learn the brand new OpenCV 3 0 0 You will build a theoretical foundation of image processing and video analysis and progress to the concepts of classification through machine learning acquiring the technical know how that will allow you to create and use object detectors and classifiers and even track objects in movies or video camera feeds Finally the journey will end in the world of artificial neural networks along with the development of a hand written digits recognition application Style and approach This book is a comprehensive guide to the brand new OpenCV 3 with Python to develop real life computer vision applications

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

Learning OpenCV 4 Computer Vision with Python Joseph Howse,Joe Minichino,2020-02-20 Updated for OpenCV 4 and Python 3 this book covers the latest on depth cameras 3D tracking augmented reality and deep neural networks helping you solve real world computer vision problems with practical code Key Features Build powerful computer vision applications in concise code with OpenCV 4 and Python 3 Learn the fundamental concepts of image processing object classification and 2D and 3D tracking Train use and understand machine learning models such as Support Vector Machines SVMs and neural networks Book Description Computer vision is a rapidly evolving science encompassing diverse applications and techniques This book will not only help those who are getting started with computer vision but also experts in the domain You ll be able to put theory into practice by building apps with OpenCV 4 and Python 3 You ll start by understanding OpenCV 4 and how to set it up with Python 3 on various platforms Next you ll learn how to perform basic operations such as reading writing manipulating and displaying still images videos and camera feeds From taking you through image processing video analysis and depth estimation and segmentation to helping you gain practice by building a GUI app this book ensures you ll have opportunities for hands on activities Next you ll tackle two popular challenges face detection and face recognition You ll also learn about object classification and machine learning concepts which will enable you to create and use object detectors and classifiers and even track objects in movies or video camera feed Later you ll develop your skills in 3D tracking and augmented reality Finally you ll cover ANNs and DNNs learning how to develop apps for recognizing handwritten digits and classifying a person s gender and age By the end of this book you ll have the skills you need to execute real world computer vision projects What you will learn Install and familiarize yourself with OpenCV 4 s Python 3 bindings Understand image processing and video analysis basics Use a depth camera to distinguish foreground and background regions Detect and identify objects and track their motion in videos Train and use your own models to match images and classify objects Detect

and recognize faces and classify their gender and age Build an augmented reality application to track an image in 3D Work with machine learning models including SVMs artificial neural networks ANNs and deep neural networks DNNs Who this book is for If you are interested in learning computer vision machine learning and OpenCV in the context of practical real world applications then this book is for you This OpenCV book will also be useful for anyone getting started with computer vision as well as experts who want to stay up to date with OpenCV 4 and Python 3 Although no prior knowledge of image processing computer vision or machine learning is required familiarity with basic Python programming is a must

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 **OpenCV Essentials** Oscar Deniz Suarez, M^a del Milagro Fernández Carroble, 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

Raspberry Pi Robotic Blueprints Richard Grimmer, 2015-10-30 Utilize the powerful ingredients of Raspberry Pi to bring to life your amazing robots that can act draw and have fun with laser tags About This Book Learn to implement a number of features offered by Raspberry Pi to build your own amazing robots Understand how to add vision and voice to your robots This fast paced practical guide comprises a number of creative projects to take your Raspberry Pi knowledge to the next level Who This Book Is For This all encompassing guide was created for anyone who is interested in expanding their knowledge in applying the peripherals of Raspberry Pi If you have a fancy for building complex looking robots with simple inexpensive and readily available hardware then this book is ideal for you Prior understanding of Raspberry Pi with simple mechanical systems is recommended What You Will Learn Add sensors to your robot so that it can sense the world around it Know everything there is to know about accessing motors and servos to provide movement to the robotic platform Explore the feature of adding vision to your robot so it can see the world around it Refine your robot with the skill of speech recognition so that it can receive commands Polish your robot by adding speech output so it can communicate with the world around it Maximize the use of servos in Raspberry Pi to create a drawing robot Strengthen your robot by adding wireless communication skills so you can see what the robot is seeing and control it from a distance Build an unbelievable autonomous hexcopter controlled by Raspberry Pi In Detail The Raspberry Pi is a series of credit card sized single board computers developed in the UK by the Raspberry Pi Foundation with the intention of promoting the teaching of basic computer science in schools The Raspberry Pi is known as a tiny computer built on a single circuit board It runs a Linux operating system and has connection ports for various peripherals so that it can be hooked up to sensors motors cameras and more Raspberry Pi has been hugely popular among hardware hobbyists for various projects including robotics This book gives you an insight into implementing several creative projects using the peripherals provided by Raspberry Pi To start we ll walk through the basic robotics concepts that the world of Raspberry Pi offers us implementing wireless communication to control your robot from a distance Next we demonstrate how to build a sensible and a visionary robot maximizing the use of sensors and step controllers After that we focus on building a wheeled robot that can draw and play hockey To finish with a bang we ll build an autonomous hexcopter that is a flying robot controlled by Raspberry Pi By the end of this book you will be a maestro in applying an array of different technologies to create almost any imaginable robot Style and approach This book

is an easy to follow project based guide that throws you directly into the action of creating almost any imaginable robot through blueprints It is full of step by step instructions and screenshots to help you build amazing robots in no time at all

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 Keras and PyTorch 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

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 FeaturesLearn about the new features that help unlock the full potential of OpenCV 4Build face detection applications with a cascade classifier using face landmarksCreate an optical character recognition OCR model using deep learning and convolutional neural networksBook 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 OpenCV4 What you will learnBuild real world computer vision problems with working OpenCV code samplesUncover best practices in engineering and maintaining OpenCV projectsExplore algorithmic design approaches for complex computer vision tasksWork with OpenCV s most updated API v4 0 0 through projectsUnderstand 3D scene reconstruction and Structure from Motion SfM Study camera calibration and overlay AR using the ArUco ModuleWho 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 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

Learn OpenCV 4 by Building Projects David Millán Escrivá,Vinícius G. 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 techniques Remove backgrounds from static scenes to identify moving objects for surveillance Employ various techniques to track objects in a live video Work with new OpenCV functions for text detection and recognition with Tesseract Get acquainted with important deep learning tools for image classification 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 OpenCV Learn OpenCV 4 by Building Projects for you Prior knowledge of C will help you understand the concepts covered in this book [Mastering OpenCV with Python](#) Ayush Vaishya,2023-11-15 Unlocking Visual Insights OpenCV Made Simple and Powerful KEY FEATURES OpenCV Mastery Harness the full potential of OpenCV Comprehensive Coverage From fundamentals to advanced techniques Practical Exercises Apply knowledge through hands on tasks DESCRIPTION Mastering OpenCV with Python immerses you in the captivating realm of computer vision with a structured approach that equips you with the knowledge and skills essential for success in this rapidly evolving field From grasping the fundamental concepts of image processing and OpenCV to mastering advanced techniques such as neural networks and object detection you will gain a comprehensive understanding Each chapter is enriched with hands on exercises and real world projects ensuring the acquisition of practical skills that can be immediately applied in your professional journey This book not only elevates your technical proficiency but also prepares you for a rewarding career The technological job landscape is constantly evolving and professionals who can harness the potential of computer vision are in high demand By mastering the skills and insights contained within these pages you will be well prepared to explore exciting career opportunities ranging from machine learning engineering to computer vision research This book is your ticket to a future filled with innovation and professional advancement within the dynamic world of computer vision WHAT WILL YOU LEARN Master Image Processing and Machine Learning with OpenCV using advanced Tools and Libraries Create Real World Projects with Hands On Experience Explore Machine Learning for Computer Vision Develop Confidence in Practical Computer Vision Projects Conquer Real World Image Processing Challenges Apply Computer Vision Across Diverse Industries Boost Your Career in Computer Vision Become an Expert in Computer Vision for Career Advancement WHO IS THIS BOOK FOR This beginner friendly book in computer vision requires no prior experience making it accessible to newcomers While a basic programming understanding is helpful it s designed to guide individuals from diverse backgrounds into the captivating realms of AI computer vision and image processing It s equally valuable for aspiring tech professionals students and enthusiasts seeking rewarding careers and knowledge in these cutting edge fields TABLE OF CONTENTS 1

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OpenCV 4 Roy Shilkrot, 2018

Opencv Blueprints Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the power of words has become more evident than ever. They have the ability to inspire, provoke, and ignite change. Such is the essence of the book **Opencv Blueprints**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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