



Community Experience Distilled

OpenCV 3 Blueprints

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

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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

Learning OpenCV 4 Computer Vision with Python 3 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 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
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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

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Table of Contents Pdf Online Opencv Blueprints Joseph Howse

1. Understanding the eBook Pdf Online Opencv Blueprints Joseph Howse
 - The Rise of Digital Reading Pdf Online Opencv Blueprints Joseph Howse
 - Advantages of eBooks Over Traditional Books
2. Identifying Pdf Online Opencv Blueprints Joseph Howse
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Pdf Online Opencv Blueprints Joseph Howse
 - User-Friendly Interface
4. Exploring eBook Recommendations from Pdf Online Opencv Blueprints Joseph Howse
 - Personalized Recommendations
 - Pdf Online Opencv Blueprints Joseph Howse User Reviews and Ratings
 - Pdf Online Opencv Blueprints Joseph Howse and Bestseller Lists
5. Accessing Pdf Online Opencv Blueprints Joseph Howse Free and Paid eBooks
 - Pdf Online Opencv Blueprints Joseph Howse Public Domain eBooks
 - Pdf Online Opencv Blueprints Joseph Howse eBook Subscription Services
 - Pdf Online Opencv Blueprints Joseph Howse Budget-Friendly Options

6. Navigating Pdf Online Opencv Blueprints Joseph Howse eBook Formats
 - ePub, PDF, MOBI, and More
 - Pdf Online Opencv Blueprints Joseph Howse Compatibility with Devices
 - Pdf Online Opencv Blueprints Joseph Howse Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Pdf Online Opencv Blueprints Joseph Howse
 - Highlighting and Note-Taking Pdf Online Opencv Blueprints Joseph Howse
 - Interactive Elements Pdf Online Opencv Blueprints Joseph Howse
8. Staying Engaged with Pdf Online Opencv Blueprints Joseph Howse
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Pdf Online Opencv Blueprints Joseph Howse
9. Balancing eBooks and Physical Books Pdf Online Opencv Blueprints Joseph Howse
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Pdf Online Opencv Blueprints Joseph Howse
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Pdf Online Opencv Blueprints Joseph Howse
 - Setting Reading Goals Pdf Online Opencv Blueprints Joseph Howse
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Pdf Online Opencv Blueprints Joseph Howse
 - Fact-Checking eBook Content of Pdf Online Opencv Blueprints Joseph Howse
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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