

# Android Application Programming with OpenCV 3

Build Android apps to capture, manipulate, and track objects in 2D and 3D



# **Android Application Programming With Opency Howse Joseph**

**Lingjun Ying** 

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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 OpenCV Android Programming By Example Amgad Muhammad, 2015-12-15 Develop vision aware and intelligent projects 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 well 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 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

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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 Python Game Programming By Example Alejandro Rodas de Paz, Joseph Howse, 2015-09-28 A pragmatic guide for developing your own games with Python About This Book Strengthen your fundamentals of game programming with Python language Seven hands on games to create 2D and 3D games rapidly from scratch Illustrative guide to explore the different GUI libraries for building your games Who This Book Is For If you have ever wanted to create casual games in Python and you would like to explore various GUI technologies that this language offers this is the book for you This title is intended for beginners to Python with little or no knowledge of game development and it covers step by step how to build seven different games from the well known Space Invaders to a classical 3D platformer What You Will Learn Take advantage of Python s clean syntax to build games quickly Discover distinct frameworks for developing graphical applications Implement non player characters NPCs with autonomous and seemingly intelligent behaviors Design and code some popular games like Pong and tower defense Compose maps and levels for your sprite based games in an easy manner Modularize and apply object oriented principles during the design of your games Exploit libraries like Chimpunk2D cocos2d and Tkinter Create natural user

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#### **Table of Contents Android Application Programming With Opency Howse Joseph**

- 1. Understanding the eBook Android Application Programming With Opency Howse Joseph
  - The Rise of Digital Reading Android Application Programming With Opency Howse Joseph
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Android Application Programming With Opency Howse Joseph
  - 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 Android Application Programming With Opency Howse Joseph
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Android Application Programming With Opency Howse Joseph
  - Personalized Recommendations
  - o Android Application Programming With Opency Howse Joseph User Reviews and Ratings
  - Android Application Programming With Opency Howse Joseph and Bestseller Lists
- 5. Accessing Android Application Programming With Opency Howse Joseph Free and Paid eBooks
  - Android Application Programming With Opency Howse Joseph Public Domain eBooks
  - o Android Application Programming With Opency Howse Joseph eBook Subscription Services
  - $\circ \ \ Android \ Application \ Programming \ With \ Opencv \ Howse \ Joseph \ Budget-Friendly \ Options$
- 6. Navigating Android Application Programming With Opency Howse Joseph eBook Formats
  - o ePub, PDF, MOBI, and More
  - $\circ \ \ Android \ Application \ Programming \ With \ Opencv \ Howse \ Joseph \ Compatibility \ with \ Devices$
  - $\circ \ Android \ Application \ Programming \ With \ Opencv \ Howse \ Joseph \ Enhanced \ eBook \ Features$
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Android Application Programming With Opency Howse Joseph
  - Highlighting and Note-Taking Android Application Programming With Opency Howse Joseph
  - Interactive Elements Android Application Programming With Opency Howse Joseph

- 8. Staying Engaged with Android Application Programming With Opency Howse Joseph
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Android Application Programming With Opency Howse Joseph
- 9. Balancing eBooks and Physical Books Android Application Programming With Opency Howse Joseph
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Android Application Programming With Opency Howse Joseph
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Android Application Programming With Opency Howse Joseph
  - Setting Reading Goals Android Application Programming With Opency Howse Joseph
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Android Application Programming With Opency Howse Joseph
  - Fact-Checking eBook Content of Android Application Programming With Opency Howse Joseph
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - $\circ$  Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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