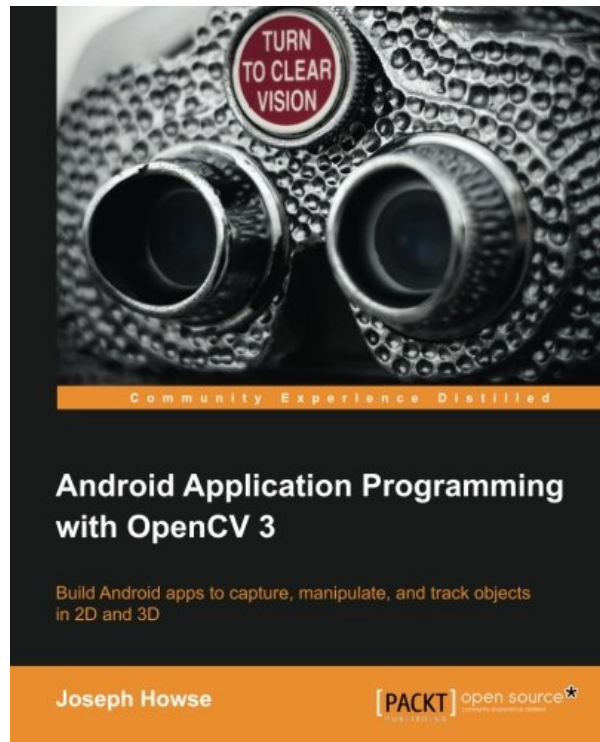
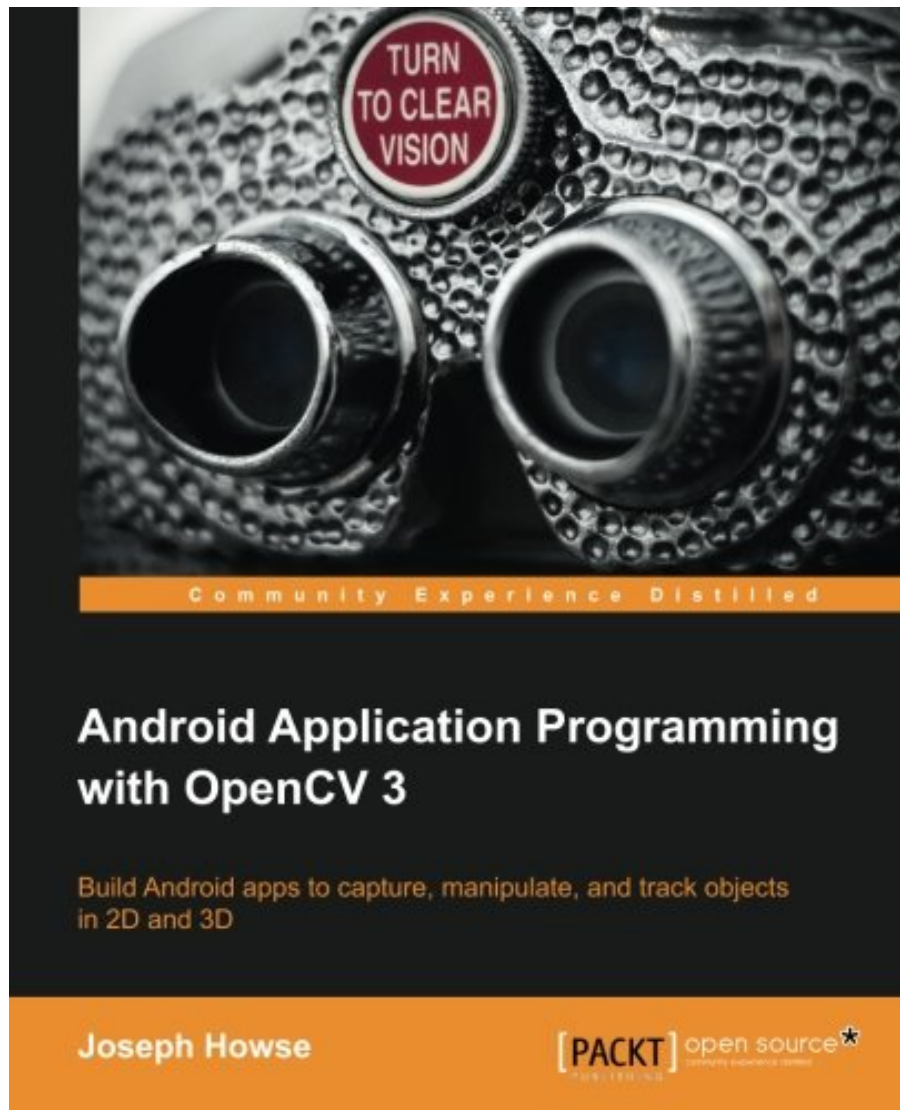


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Joseph Howse lives in Canada. During the cold winters, he grows a beard and his four cats grow thick coats of fur. He combs the cats every day. Sometimes, the cats pull his beard. Joseph has authored OpenCV for Secret Agents, OpenCV Android Application Programming, and OpenCV Computer Vision with Python. When he is not writing books or grooming cats, Joseph provides consulting, training, and software development services. His company is Nummist Media (<http://nummist.com>).

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BY JOSEPH HOWSE PDF

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

About This Book

- Capture and display real-time videos and still images
- Manipulate image data using OpenCV and Apache Commons Math
- A step-by-step guide to building Android and CV applications

Who This Book Is For

If you are a Java developer who is new to computer vision and would like to learn through application development, then this book is for you. You are expected to have a mobile device running Android 2.2 (Froyo) or greater, including a camera. Experience in Java is a must.

What You Will Learn

- Install OpenCV and an Android development environment on Windows, Mac, or Linux
- Control a camera and use its perspective in augmented reality
- Share photos with other apps via Android's MediaStore and Intent classes
- Create GUIs and handle events using Android activities and OpenCV
- Train an image recognizer that can locate famous paintings in a scene
- Apply "curves" and other color transformations to simulate the look of old photos
- Apply convolution filters that sharpen, blur, emboss, or darken the details of an image

In Detail

Android Application Programming with OpenCV 3 is a practical, hands-on guide to computer vision and mobile app development. It shows how to capture, manipulate, and analyze images while building an application that combines photography and augmented reality. To help the reader become a well-rounded developer, the book covers OpenCV (a computer vision library), Android SDK (a mobile app framework), OpenGL ES (a 3D graphics framework), and even JNI (a Java/C++ interoperability layer).

Now in its second edition, the book offers thoroughly reviewed code, instructions, and explanations. It is fully updated to support OpenCV 3 and Android 5, as well as earlier versions. Although it focuses on OpenCV's Java bindings, this edition adds an extensive chapter on JNI and C++, so that the reader is well primed to use OpenCV in other environments.

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- Released on: 2015-06-26
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- Binding: Paperback
- 167 pages

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Most helpful customer reviews

0 of 0 people found the following review helpful.

Great book, covers all the basics about how to ...

By Bradley Bossard

Great book, covers all the basics about how to get an Android development environment up and running with OpenCV for Android on either Mac or Windows, with several example apps covering some basic use cases of OpenCV in an app setting. Highly recommended for beginners in this area, you can get an app up and running in less than a hour.

1 of 1 people found the following review helpful.

A worthwhile read!

By C. Cullins

I've worked with OpenCV for a few years now, mostly on personal projects with a few professional applications scattered here and there, and I can safely say that Android Application Programming with OpenCV 3 will give you a clear, solid foundation on the topics covered. Discussed in the book are various things that you need to know to start working with OpenCV, specifically with the Android mobile platform, such as setting up the Eclipse IDE, and getting OpenCV native runtimes installed and working (a feat that is not particularly easy with a guide). It also delves into the complicated subject of OpenCV itself, of course, which can also be daunting, but the book explains the subject in a fairly understandable way. I particularly found the Image recognition section, and as someone who has worked on an application with that feature, I know how difficult this topic can be, especially when discussing the finer points of OpenCV's convoluted datatypes, but the author does this well, and I feel like I definitely learned quite a bit!

Overall, I can say that I really enjoyed the book.

1 of 1 people found the following review helpful.

Content is already outdated the day the book was published.

By Kitayarra

Google has decided to discontinue Eclipse before this book got published and yet knowing this fact the author still decides to use Eclipse as the development environment because "for our purposes, Eclipse is a bit more convenient than Android Studio". As a result of this poor decision the book is already outdated the day it was published at the end of June 2015. Google has discontinued Eclipse and I only have Android Studio in my computer. I was wondering what the author would say about that.

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