



Mastering OpenCV Android Application Programming

Salit Kapur

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Master the art of implementing computer vision algorithms on Android platforms to build robust and efficient applications

About This Book

- Understand and utilise the features of OpenCV, Android SDK, and OpenGL
- Detect and track specific objects in a video using Optical Flow and Lucas Kanade Tracker
- An advanced guide full of real-world examples, helping you to build smart OpenCV Android applications

Who This Book Is For

If you are a Java and Android developer looking to enhance your skills by learning the latest features of OpenCV Android application programming, then this book is for you.

What You Will Learn

- Understand image processing using OpenCV
- Detect specific objects in an image or video using various state-of-the-art feature-matching algorithms such as SIFT, SURF, and ORB
- Perform image transformations such as changing color, space, resizing, applying filters like Gaussian blur, and likes
- Use mobile phone cameras to interact with the real world
- Explore face detection, object detection, and image stitching in OpenCV Android programming
- Build smarter applications by using machine learning algorithms
- Learn to debug applications and create optimal custom algorithms by understanding how data is stored internally

In Detail

OpenCV is a famous computer vision library, used to analyze and transform copious amounts of image data, even in real time and on a mobile device.

This book focuses on leveraging mobile platforms to build interactive and 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 projects.

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