

# **Discover the Power of OpenCV in the Computer Vision Application Programming Cookbook Second Edition!**

Computer vision has revolutionized the way we interact with technology, enabling machines to perceive and understand the world around us. OpenCV, an open-source computer vision library, plays a crucial role in enabling developers to create extraordinary applications that leverage the power of computer vision. And now, with the release of the second edition of the OpenCV Computer Vision Application Programming Cookbook, the possibilities are endless!

## **Unleash Your Creativity with OpenCV**

Whether you're a beginner or an experienced developer, the OpenCV Computer Vision Application Programming Cookbook Second Edition is your ultimate guide to mastering OpenCV for real-world computer vision applications. With its comprehensive collection of practical recipes, this cookbook empowers you to unleash your creativity and build cutting-edge computer vision solutions.

## **Master Various Computer Vision Techniques**

The cookbook covers a wide range of computer vision techniques, including image processing, feature extraction, object detection, object tracking, and more. Each recipe is carefully crafted to provide step-by-step instructions, accompanied by relevant code snippets, to help you understand and implement the techniques effectively.

### **OpenCV Computer Vision Application Programming Cookbook Second Edition**

by Kayti Nika Raet (2nd New edition, Kindle Edition)



★★★★☆ 4 out of 5

Language : English  
File size : 11095 KB  
Text-to-Speech : Enabled  
Enhanced typesetting : Enabled  
Print length : 376 pages  
Screen Reader : Supported



## Enhance Your Skills with Real-World Projects

The book goes beyond theoretical concepts and dives deep into real-world examples and projects. You'll learn how to build applications using OpenCV for tasks like face recognition, 3D reconstruction, augmented reality, and even autonomous vehicles. The practical nature of the cookbook enables you to acquire skills that can be directly applied to your own projects.

## Stay Updated with the Latest Features

OpenCV is a constantly evolving library, and the second edition of the cookbook ensures that you stay updated with the latest features and advancements. It covers new techniques and improvements introduced in newer versions of OpenCV, allowing you to make the most of the library's capabilities.

## Unlock the Power of OpenCV with the Cookbook's Features

The OpenCV Computer Vision Application Programming Cookbook Second Edition comes packed with features that make it an invaluable resource:

- **Harness the wisdom of experienced authors:** The book is written by seasoned computer vision experts who share their knowledge and insights

with you.

- **Practical recipes:** Each recipe is focused on a specific task, making it easy for you to find solutions to your unique challenges.
- **Detailed explanations:** The book provides clear explanations of the underlying concepts, ensuring you understand the principles behind the code.
- **Relevant code snippets:** Code snippets are included with each recipe, saving you time and effort in implementing the techniques.
- **Real-world examples:** The cookbook includes numerous real-world examples and projects, illustrating how OpenCV can be used to solve practical problems.
- **Companion website:** The book's companion website provides additional resources, including source code and updates, to enhance your learning experience.

## Take Your Computer Vision Skills to the Next Level

Whether you're a computer vision enthusiast, a software developer, or an engineer working on innovative applications, the OpenCV Computer Vision Application Programming Cookbook Second Edition is a must-have resource. With its comprehensive coverage, real-world examples, and practical recipes, it empowers you to take your computer vision skills to the next level and create groundbreaking applications with OpenCV. Get your copy today and embark on your journey towards mastering computer vision!

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Over 50 recipes to help you build computer vision applications in C++ using the OpenCV library

## About This Book

- Master OpenCV, the open source library of the computer vision community
- Master fundamental concepts in computer vision and image processing
- Learn the important classes and functions of OpenCV with complete working examples applied on real images

## Who This Book Is For

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.

## What You Will Learn

- Install and create a program using the OpenCV library
- Process an image by manipulating its pixels
- Analyze an image using histograms
- Segment images into homogenous regions and extract meaningful objects
- Apply image filters to enhance image content
- Exploit image geometry in order to relate different views of a pictured scene
- Calibrate the camera from different image observations
- Detect faces and people in images using machine learning techniques

## In Detail

OpenCV Computer Vision Application Programming Cookbook Second Edition is your guide to the development of computer vision applications.

The book shows you how to install and deploy the OpenCV library to write an effective computer vision application. Different techniques for image enhancement, pixel manipulation, and shape analysis will be presented. You will also learn how to process video from files or cameras and detect and track moving objects. You will also be introduced to recent approaches in machine learning and object classification.

This book is a comprehensive reference guide that exposes you to practical and fundamental computer vision concepts, illustrated by extensive examples.



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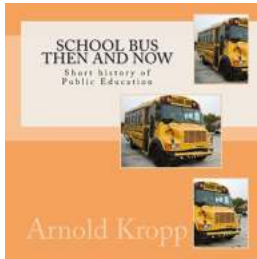
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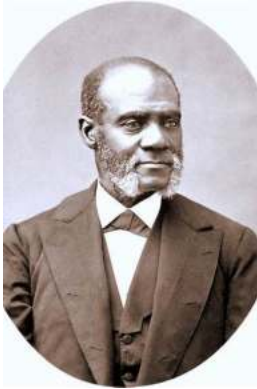
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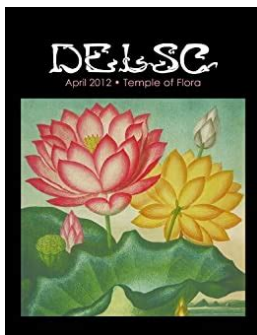
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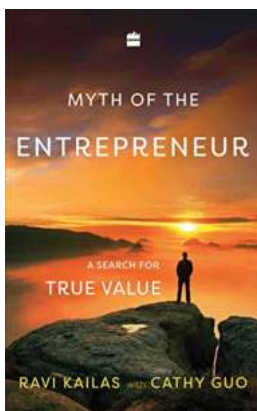
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