



# OpenCV Computer Vision Application Programming Cookbook, 2nd Edition

*Robert Laganiera*

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# OpenCV Computer Vision Application Programming Cookbook, 2nd Edition

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**OpenCV Computer Vision Application Programming Cookbook, 2nd Edition** Robert Laganier  
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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