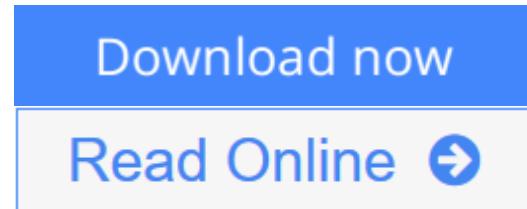


# Raspberry Pi Computer Vision Programming

By *Ashwin Pajankar*



**Raspberry Pi Computer Vision Programming** By *Ashwin Pajankar*

**Design and implement your own computer vision applications with the Raspberry Pi**

## About This Book

- Explore the vast opportunities of computer vision with the Raspberry Pi and Python
- Design and develop webcam and Raspberry Pi based applications
- The book features ample screenshots that will offer a play-by-play account on how to implement computer vision fundamentals and applications

## Who This Book Is For

This book is intended for novices, as well as seasoned Raspberry Pi and Python enthusiasts, who would like to explore the area of computer vision. Readers with very little programming or coding/scripting experience can create wonderful image processing and computer vision applications with relatively fewer lines of code in Python.

## What You Will Learn

- Set up your Raspberry Pi and master computer vision with OpenCV
- Work with images, videos, webcams, the Pi camera, and create amazing timelapse videos
- Blend images and create artistic effects such as image transitioning
- Transform images, change colorspaces, and track objects based on colors
- Use various high- and low-pass filters to remove noise from the image
- Find contours and segments in images and detect edges, lines, and circles
- Install another simple yet powerful library, SimpleCV, and with its help create real-life applications

## In Detail

This book will provide you with the skills you need to successfully design and

implement your own Raspberry Pi and Python-based computer vision projects.

From the beginning, this book will cover how to set up your Raspberry Pi for computer vision applications, exploring the basics of OpenCV, and how to design and implement real-life computer vision applications on your own. By sequentially working through the steps in each chapter, you will quickly be able to master the features of OpenCV. In the end of the book, you will also be introduced to SimpleCV, which is another powerful computer vision library for Python. Featuring plenty of coding examples and exercises, this book offers you an unparalleled learning experience.

 [Download Raspberry Pi Computer Vision Programming ...pdf](#)

 [Read Online Raspberry Pi Computer Vision Programming ...pdf](#)

# Raspberry Pi Computer Vision Programming

By *Ashwin Pajankar*

**Raspberry Pi Computer Vision Programming** By Ashwin Pajankar

**Design and implement your own computer vision applications with the Raspberry Pi**

## About This Book

- Explore the vast opportunities of computer vision with the Raspberry Pi and Python
- Design and develop webcam and Raspberry Pi based applications
- The book features ample screenshots that will offer a play-by-play account on how to implement computer vision fundamentals and applications

## Who This Book Is For

This book is intended for novices, as well as seasoned Raspberry Pi and Python enthusiasts, who would like to explore the area of computer vision. Readers with very little programming or coding/scripting experience can create wonderful image processing and computer vision applications with relatively fewer lines of code in Python.

## What You Will Learn

- Set up your Raspberry Pi and master computer vision with OpenCV
- Work with images, videos, webcams, the Pi camera, and create amazing timelapse videos
- Blend images and create artistic effects such as image transitioning
- Transform images, change colorspaces, and track objects based on colors
- Use various high- and low-pass filters to remove noise from the image
- Find contours and segments in images and detect edges, lines, and circles
- Install another simple yet powerful library, SimpleCV, and with its help create real-life applications

## In Detail

This book will provide you with the skills you need to successfully design and implement your own Raspberry Pi and Python-based computer vision projects.

From the beginning, this book will cover how to set up your Raspberry Pi for computer vision applications, exploring the basics of OpenCV, and how to design and implement real-life computer vision applications on your own. By sequentially working through the steps in each chapter, you will quickly be able to master the features of OpenCV. In the end of the book, you will also be introduced to SimpleCV, which is another powerful computer vision library for Python. Featuring plenty of coding examples and exercises, this book offers you an unparalleled learning experience.

## Raspberry Pi Computer Vision Programming By Ashwin Pajankar Bibliography

- Sales Rank: #2185841 in Books
- Published on: 2015-05-29
- Released on: 2015-05-28
- Original language: English
- Number of items: 1
- Dimensions: 9.25" h x .41" w x 7.50" l, .70 pounds
- Binding: Paperback
- 168 pages

 [Download Raspberry Pi Computer Vision Programming ...pdf](#)

 [Read Online Raspberry Pi Computer Vision Programming ...pdf](#)

## **Download and Read Free Online Raspberry Pi Computer Vision Programming By Ashwin Pajankar**

---

### **Editorial Review**

#### **About the Author**

#### **Ashwin Pajankar**

Ashwin Pajankar is a Bangalore-based software professional with more than 5 years of experience in software design, development, testing, and automation. He graduated from IIT Hyderabad with an MTech degree in computer science and engineering. He holds multiple professional certifications from Oracle, IBM, Teradata, and ISTQB in development, databases, and testing. Apart from work, he enjoys serving the community. He has won several awards in college through college outreach initiatives and at work for community service through his employers for corporate social responsibility programs. He was introduced to the Raspberry Pi while organizing a hackathon at his workplace, and he's been hooked on to Pi ever since. He writes plenty of code in Bash, Python, and Java on his cluster of Pi. Currently, he's building India's biggest cluster of the recently launched Raspberry Pi 2. He's reviewed two other titles related to Python from Packt and is working on another book on Raspberry Pi. You can view Ashwin's LinkedIn profile by visiting [in.linkedin.com/in/ashwinpajankar](https://in.linkedin.com/in/ashwinpajankar).

### **Users Review**

#### **From reader reviews:**

#### **Jeffrey Smith:**

Information is provisions for folks to get better life, information presently can get by anyone with everywhere. The information can be a understanding or any news even an issue. What people must be consider while those information which is inside former life are challenging to be find than now could be taking seriously which one works to believe or which one the actual resource are convinced. If you find the unstable resource then you get it as your main information you will see huge disadvantage for you. All of those possibilities will not happen with you if you take Raspberry Pi Computer Vision Programming as the daily resource information.

#### **Ira Gonzalez:**

This book untitled Raspberry Pi Computer Vision Programming to be one of several books that will best seller in this year, here is because when you read this book you can get a lot of benefit upon it. You will easily to buy this book in the book retailer or you can order it by means of online. The publisher of this book sells the e-book too. It makes you quickly to read this book, because you can read this book in your Smart phone. So there is no reason for you to past this guide from your list.

#### **Genia Vanderford:**

Beside that Raspberry Pi Computer Vision Programming in your phone, it may give you a way to get more close to the new knowledge or information. The information and the knowledge you might got here is fresh

from your oven so don't be worry if you feel like an previous people live in narrow community. It is good thing to have Raspberry Pi Computer Vision Programming because this book offers for you readable information. Do you sometimes have book but you would not get what it's interesting features of. Oh come on, that wil happen if you have this in the hand. The Enjoyable set up here cannot be questionable, including treasuring beautiful island. So do you still want to miss the idea? Find this book and read it from currently!

**John Hill:**

You can find this Raspberry Pi Computer Vision Programming by visit the bookstore or Mall. Simply viewing or reviewing it can to be your solve challenge if you get difficulties for your knowledge. Kinds of this reserve are various. Not only by simply written or printed but additionally can you enjoy this book by simply e-book. In the modern era similar to now, you just looking from your mobile phone and searching what their problem. Right now, choose your own personal ways to get more information about your guide. It is most important to arrange yourself to make your knowledge are still up-date. Let's try to choose suitable ways for you.

**Download and Read Online Raspberry Pi Computer Vision Programming By Ashwin Pajankar #LMGYU0AEXJ6**

# **Read Raspberry Pi Computer Vision Programming By Ashwin Pajankar for online ebook**

Raspberry Pi Computer Vision Programming By Ashwin Pajankar Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Raspberry Pi Computer Vision Programming By Ashwin Pajankar books to read online.

## **Online Raspberry Pi Computer Vision Programming By Ashwin Pajankar ebook PDF download**

**Raspberry Pi Computer Vision Programming By Ashwin Pajankar Doc**

**Raspberry Pi Computer Vision Programming By Ashwin Pajankar Mobipocket**

**Raspberry Pi Computer Vision Programming By Ashwin Pajankar EPub**

**LMGYU0AEXJ6: Raspberry Pi Computer Vision Programming By Ashwin Pajankar**