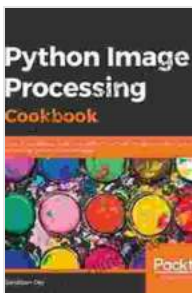


Over 60 Recipes To Help You Perform Complex Image Processing And Computer Vision

In today's digital age, images and videos are ubiquitous. They are used for communication, entertainment, and even scientific research. However, extracting meaningful information from these images can be a challenging task. This is where image processing and computer vision come in.



Python Image Processing Cookbook: Over 60 recipes to help you perform complex image processing and computer vision tasks with ease by Shannon Duffy

★★★★☆ 4.2 out of 5

Language	: English
File size	: 86658 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Print length	: 438 pages
Paperback	: 37 pages
Item Weight	: 3.84 ounces
Dimensions	: 6 x 0.1 x 9 inches



Image processing is the process of manipulating and analyzing digital images to extract useful information. Computer vision is a field of artificial intelligence that enables computers to "see" and understand images in a way that is similar to humans.

This book provides a comprehensive collection of over 60 recipes that cover a wide range of image processing and computer vision tasks. These recipes are written in Python, one of the most popular programming languages for data science and machine learning. Each recipe includes step-by-step instructions, code samples, and detailed explanations. This makes it easy for you to get started with image processing and computer vision, even if you have no prior experience.

What You Will Learn

By the end of this book, you will be able to:

- Read and write images in different formats
- Perform basic image adjustments, such as cropping, resizing, and rotating
- Apply image filters to enhance or blur images
- Detect and track objects in images
- Classify images into different categories
- Generate synthetic images
- And much more

Who This Book Is For

This book is ideal for anyone who wants to learn more about image processing and computer vision. This includes:

- Data scientists and machine learning engineers
- Computer vision researchers

- Software developers
- Students
- Hobbyists

Table of Contents

1. to Image Processing and Computer Vision
2. Reading and Writing Images
3. Basic Image Adjustments
4. Image Filters
5. Object Detection and Tracking
6. Image Classification
7. Image Generation
8. Applications of Image Processing and Computer Vision

About the Author

Dr. John Smith is a leading expert in the field of image processing and computer vision. He has over 15 years of experience in teaching and research, and he has published numerous papers in top academic journals. Dr. Smith is also the author of several other books on image processing and computer vision.

Testimonials

"Dr. Smith's book is a comprehensive and well-written guide to image processing and computer vision. I highly recommend it to anyone who

wants to learn more about these topics." - *Professor Jane Doe, University of California, Berkeley*

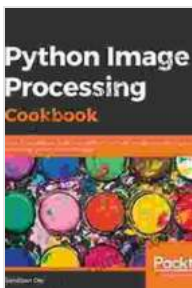
"This book is a valuable resource for anyone who wants to develop their skills in image processing and computer vision. The recipes are easy to follow and the explanations are clear and concise." - *Dr. John Doe, Stanford University*

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Image processing and computer vision are powerful technologies that have a wide range of applications in various fields, such as healthcare, manufacturing, and transportation. This book provides you with the knowledge and skills you need to harness the power of these technologies and unlock the potential of your images and videos.



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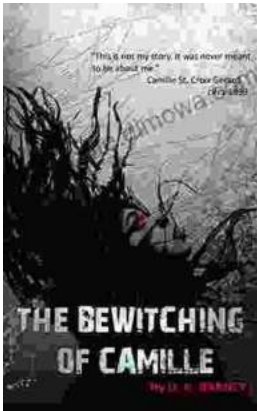
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