



Community Experience Distilled

OpenCV Essentials

Acquire, process, and analyze visual content to build full-fledged imaging applications using OpenCV

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OpenCV Essentials Oscar Deniz Suarez, M^a del Milagro Fernández Carrobles, Noelia Vázquez Enano, Gloria Bueno García, Ismael Serrano Gracia, Julio Alberto Patón Incertis, Jesus Salido Tercero, 2014-08-25 This book is intended for C developers who want to learn how to implement the main techniques of OpenCV and get started with it quickly Working experience with computer vision image processing is expected

Essentials of Pattern Recognition Jianxin Wu, 2020-11-19 An accessible undergraduate introduction to the concepts and methods in pattern recognition machine learning and deep learning

Raspberry Pi Programming Essentials Barrett Williams, ChatGPT, 2025-05-08 Unlock the endless possibilities of your Raspberry Pi with Raspberry Pi Programming Essentials your ultimate guide to turning innovative ideas into reality Perfect for beginners and seasoned tinkerers alike this comprehensive eBook walks you through the fascinating world of Raspberry Pi and Python programming Start your journey by mastering the basics in Chapter 1 where you'll set up your Raspberry Pi and dive into the essentials of Python Once you've got the groundwork covered Chapter 2 introduces you to the wonders of GPIO programming Light up your creativity by configuring your first LED circuit and writing your inaugural Python script Ever wondered how to create practical gadgets like alarm systems or temperature sensors Head to Chapter 3 where you'll build basic yet functional sensor projects Turn to Chapter 4 and you're ready to enhance your designs with interactive projects Whether it's a digital dice or a reaction game your Raspberry Pi is more than just a circuit board it's your playground The book delves into the Internet of Things IoT in Chapter 5 prepping you to connect your Raspberry Pi to Wi-Fi and code network access applications Transform your living space into a tech-savvy haven in Chapter 6 as you work on smart home automation systems from thermostats to security solutions Data enthusiasts will relish Chapter 7's introduction to data collection and analysis Discover how to store analyze and even visualize sensor data making informed decisions with ease Meanwhile Chapter 8 propels you into the realm of computer vision opening up new avenues for Raspberry Pi applications Chapters 9 and 10 awaken the engineer and musician within guiding you through robotics projects and musical creations Want to bring your projects online Chapter 11 helps you develop web applications showcasing your work on personalized dashboards From advanced projects to helpful tips in Chapter 13 and expanding your skills in Chapter 14 Raspberry Pi Programming Essentials is the key to unlocking a limitless future of innovative Raspberry Pi applications Step into the future of tech exploration and let your creativity soar

Raspberry Pi Robotics Essentials Richard Grimmett, 2015-06-19 The Raspberry Pi B2 is an inexpensive embedded processor that provides a high performance Linux development environment This book is a fast-paced guide that will show you how to use Raspberry Pi technology to build a biped robot that can interact with its environment We start off by explaining the basics of getting your Raspberry Pi up and running ready to be mounted on your biped platform After this you will be introduced to the art of constructing a mechanism for the biped platform You will then learn to develop a vision system for your robot as well as a means by which you can

control and monitor it At the end of this book you will have learned enough to build a complex biped robot that can walk turn find its way and see its environment

A Hands-On Introduction to Essential Python Libraries and Frameworks (With Code Samples) Murat Durmus,2023-03-02 Essential Python libraries and frameworks that every aspiring data scientist ML engineer and Python developer should know Python is not just a language it s a community where developers can learn collaborate and create wonders Guido van Rossum Creator of Python

Computer Analysis of Images and Patterns Michael Felsberg,Anders Heyden,Norbert Krüger,2017-08-08 The two volume set LNCS 10424 and 10425 constitutes the refereed proceedings of the 17th International Conference on Computer Analysis of Images and Patterns CAIP 2017 held in Ystad Sweden in August 2017 The 72 papers presented were carefully reviewed and selected from 144 submissions The papers are organized in the following topical sections Vision for Robotics Motion and Tracking Segmentation Image Video Indexing and Retrieval Shape Representation and Analysis Biomedical Image Analysis Biometrics Machine Learning Image Restoration and Poster Sessions

Learning Image Processing with OpenCV Gloria Bueno Garcia,Deniz Oscar Suarez's,Oscar Deniz Suarez,Jose Luis Espinosa Aranda,Noelia Vázquez Enano,Jesus Salido Tercero,Ismael Serrano Gracia,2015 If you are a competent C programmer and want to learn the tricks of image processing with OpenCV then this book is for you A basic understanding of image processing is required

Learn OpenCV with Python by Examples James Chen,2023-05

Learn OpenCV 4.5 with Python 3.7 by Examples James Chen, What This Book is About When you searched for this book you have already known the importance of the OpenCV Python in the fields of computer vision image processing and machine learning This book begins with step by step instructions of installation as well as a simple Hello World then gets into the OpenCV Basics Image Processing Object Detection and finally Machine Learning Key Features Example for every topic all the source codes are available in Github Line by line explanation of the source codes Focus mainly on implementation of algorithms rather than mathematical theories Whom This Book Is For This book is for people with a variety of computer programming levels from those with very limited knowledge of computer vision to the experienced ones The readers do not need to have previous experiences of Python OpenCV No matter you are a beginner or experienced programmer as long as you want to learn OpenCV with Python you will benefit from this book Table of Contents

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regions using normal color images and depth images In Detail Computer Vision can reach consumers in various contexts via webcams camera phones and gaming sensors like Kinect OpenCV s Python bindings can help developers meet these consumer demands for applications that capture images change their appearance and extract information from them in a high level language and in a standardized data format that is interoperable with scientific libraries such as NumPy and SciPy OpenCV Computer Vision with Python is a practical hands on guide that covers the fundamental tasks of computer vision capturing filtering and analyzing images with step by step instructions for writing both an application and reusable library classes OpenCV Computer Vision with Python shows you how to use the Python bindings for OpenCV By following clear and concise examples you will develop a computer vision application that tracks faces in live video and applies special effects to them If you have always wanted to learn which version of these bindings to use how to integrate with cross platform Kinect drivers and and how to efficiently process image data with NumPy and SciPy then this book is for you What you will learn from this book Install OpenCV and related software such as Python NumPy SciPy OpenNI and SensorKinect all on Windows Mac or Ubuntu Capture display and save photos and real time videos Handle window events and input events using OpenCV s HighGui module or Pygame Understand OpenCV s image format and how to perform efficient operations on OpenCV images with NumPy and SciPy Apply curves and other color transformations to simulate the look of old photos movies or video games Apply an effect only to edges in an image Copy and resize segments of an image Apply an effect only to certain depths in an image by using data from a depth sensor such as Kinect Track faces eyes noses and mouths by using prebuilt datasets Track arbitrary objects by creating original datasets Approach A practical project based tutorial for Python developers and hobbyists who want to get started with computer vision with OpenCV and Python Who this book is written for OpenCV Computer Vision with Python is written for Python developers who are new to computer vision and want a practical guide to teach them the essentials Some understanding of image data for example pixels and color channels would be beneficial At a minimum you will need access to at least one webcam Certain exercises require additional hardware like a second webcam a Microsoft Kinect or an OpenNI compliant depth sensor such as the Asus Xtion PRO

International Scientific Applied Conference "Problems of Emergency Situations" (PES) Alexey Vasilchenko, Andrii Kondratiev, Evgeniy Rybka, Mykola Surianinov, Nina Rashkevich, Yurii Otrosh, 2025-12-19 Selected peer reviewed extended articles based on abstracts presented at the International Scientific Applied Conference Problems of Emergency Situations PES 2025 Aggregated Book

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