



Community Experience Distilled

Mastering OpenCV with Practical Computer Vision Projects

Step-by-step tutorials to solve common real-world computer vision problems for desktop or mobile, from augmented reality and number plate recognition to face recognition and 3D head tracking

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Mastering Opencv With Practical Computer Vision Projects Emami Shervin

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Mastering Opencv With Practical Computer Vision Projects Emami Shervin:

Mastering OpenCV with Practical Computer Vision Projects Daniel Lélis Baggio,2012-12-03 Each chapter in the book is an individual project and each project is constructed with step by step instructions clearly explained code and includes the necessary screenshots You should have basic OpenCV and C C programming experience before reading this book as it is aimed at Computer Science graduates researchers and computer vision experts widening their expertise

Mastering OpenCV 3 Daniel Lelis Baggio,Shervin Emami,David Millan Escriva,Khvedchenia Ievgen,Jason Saragih,Roy Shilkrot,2017-04-28 Practical Computer Vision Projects About This Book Updated for OpenCV 3 this book covers new features that will help you unlock the full potential of OpenCV 3 Written by a team of 7 experts each chapter explores a new aspect of OpenCV to help you make amazing computer vision aware applications Project based approach with each chapter being a complete tutorial showing you how to apply OpenCV to solve complete problems Who This Book Is For This book is for those who have a basic knowledge of OpenCV and are competent C programmers You need to have an understanding of some of the more theoretical mathematical concepts as we move quite quickly throughout the book What You Will Learn Execute basic image processing operations and cartoonify an image Build an OpenCV project natively with Raspberry Pi and cross compile it for Raspberry Pi text Extend the natural feature tracking algorithm to support the tracking of multiple image targets on a video Use OpenCV 3 s new 3D visualization framework to illustrate the 3D scene geometry Create an application for Automatic Number Plate Recognition ANPR using a support vector machine and Artificial Neural Networks Train and predict pattern recognition algorithms to decide whether an image is a number plate Use POSIT for the six degrees of freedom head pose Train a face recognition database using deep learning and recognize faces from that database In Detail As we become more capable of handling data in every kind we are becoming more reliant on visual input and what we can do with those self driving cars face recognition and even augmented reality applications and games This is all powered by Computer Vision This book will put you straight to work in creating powerful and unique computer vision applications Each chapter is structured around a central project and deep dives into an important aspect of OpenCV such as facial recognition image target tracking making augmented reality applications the 3D visualization framework and machine learning You ll learn how to make AI that can remember and use neural networks to help your applications learn By the end of the book you will have created various working prototypes with the projects in the book and will be well versed with the new features of OpenCV3 Style and approach This book takes a project based approach and helps you learn about the new features by putting them to work by implementing them in your own projects ROS Robotics By Example Carol Fairchild,Dr. Thomas L. Harman,2016-06-30 Bring life to your robot using ROS robotic applications About This Book This book will help you boost your knowledge of ROS and give you advanced practical experience you can apply to your ROS robot platforms This is the only book that offers you step by step instructions to solidify your ROS understanding and gain experience using ROS tools

From eminent authors this book offers you a plethora of fun filled examples to make your own quadcopter turtlebot and two armed robots Who This Book Is For If you are a robotics developer whether a hobbyist researchers or professional and are interested in learning about ROS through a hands on approach then this book is for you You are encouraged to have a working knowledge of GNU Linux systems and Python What You Will Learn Get to know the fundamentals of ROS and apply its concepts to real robot examples Control a mobile robot to navigate autonomously in an environment Model your robot designs using URDF and Xacro and operate them in a ROS Gazebo simulation Control a 7 degree of freedom robot arm for visual servoing Fly a quadcopter to autonomous waypoints Gain working knowledge of ROS tools such as Gazebo rviz rqt and Move It Control robots with mobile devices and controller boards In Detail The visionaries who created ROS developed a framework for robotics centered on the commonality of robotic systems and exploited this commonality in ROS to expedite the development of future robotic systems From the fundamental concepts to advanced practical experience this book will provide you with an incremental knowledge of the ROS framework the backbone of the robotics evolution ROS standardizes many layers of robotics functionality from low level device drivers to process control to message passing to software package management This book provides step by step examples of mobile armed and flying robots describing the ROS implementation as the basic model for other robots of these types By controlling these robots whether in simulation or in reality you will use ROS to drive move and fly robots using ROS control Style and approach This is an easy to follow guide with hands on examples of ROS robots both real and in simulation

Robot Vision: Teknik Membangun Robot Cerdas Masa Depan (Ed. Revisi) Dr. Widodo Budiharto, S.Si., M.Kom.,Ir. Djoko Purwanto, M.Eng., Ph.D, Buku Robot Vision ini sangat tepat dibaca oleh pe ajar an peneliti dibidang Robotika Elektronika dan teknik informatika Buku ini merupakan buku pegangan utama pada mata kuliah Robotika Kecerdasan Buatan serta Robot vision Menyajikan gambaran lengkap mengenai konsep robotika robot vision dan implementasi buku layak menjadi pegangan wajib bagi penggiat dunia robotika terutama untuk merancang robot cerdas berbasis vision Materi yang disajikan Konsep robotika dan robot vision Pemrograman robot menggunakan mikrokontroler Propeller Computer Vision dengan OpenCV dan EmguCV Pemrograman Robot dan Stereo vision Navigasi Robot Implementasi Robot Vision

OpenCV 2 Hotshot Shervin Emami,2012 Annotation Computer Vision is fast becoming an important technology and is used in Mars robots national security systems automated factories driver less cars and medical image analysis to new forms of human computer interaction OpenCV is the most common library for computer vision providing hundreds of complex and fast algorithms But it has a steep learning curve and limited in depth tutorials Mastering OpenCV with Practical Computer Vision Projects is the perfect book for developers with just basic OpenCV skills who want to try practical computer vision projects as well as the seasoned OpenCV experts who want to add more Computer Vision topics to their skill set or gain more experience with OpenCVs new C interface before migrating from the C API to the C API Each chapter is a separate project including the necessary background knowledge so try them all one by one or jump straight to

the projects you're most interested in Create working prototypes from this book including real time mobile apps Augmented Reality 3D shape from video or track faces eyes fluid wall using Kinect number plate recognition and so on Mastering OpenCV with Practical Computer Vision Projects gives you rapid training in nine computer vision areas with useful projects

Mastering OpenCV with Practical Computer Vision Projects Daniel Lélis Baggio, 2012 This is the definitive advanced tutorial for OpenCV designed for those with basic C skills The computer vision projects are divided into easily assimilated chapters with an emphasis on practical involvement for an easier learning curve Cool fun and advanced projects that cover the various aspects of OpenCV programming Strong emphasis on programming techniques and methodology for the best approach to each project Ten projects that are carefully designed to build on your skills at every step In Detail OpenCV is a computer vision library that is extensively used in companies research groups and governmental bodies for real time capture video file import image manipulation object detection and much more Its comprehensive set of computer vision and machine learning algorithms makes it the obvious choice for professionals to develop visual applications With this book in hand you would not need to plow through several pages of theory as this book will take you through the creation of many exciting projects that showcase the huge range of possibilities that open up when OpenCV is exploited to its full potential

Mastering OpenCV 4 with Python Alberto Fernández Villán, 2019-03-29 Create advanced applications with Python and OpenCV exploring the potential of facial recognition machine learning deep learning web computing and augmented reality Key Features Develop your computer vision skills by mastering algorithms in Open Source Computer Vision 4 OpenCV 4 and Python Apply machine learning and deep learning techniques with TensorFlow and Keras Discover the modern design patterns you should avoid when developing efficient computer vision applications Book Description OpenCV is considered to be one of the best open source computer vision and machine learning software libraries It helps developers build complete projects in relation to image processing motion detection or image segmentation among many others OpenCV for Python enables you to run computer vision algorithms smoothly in real time combining the best of the OpenCV C API and the Python language In this book you'll get started by setting up OpenCV and delving into the key concepts of computer vision You'll then proceed to study more advanced concepts and discover the full potential of OpenCV The book will also introduce you to the creation of advanced applications using Python and OpenCV enabling you to develop applications that include facial recognition target tracking or augmented reality Next you'll learn machine learning techniques and concepts understand how to apply them in real world examples and also explore their benefits including real time data production and faster data processing You'll also discover how to translate the functionality provided by OpenCV into optimized application code projects using Python bindings Toward the concluding chapters you'll explore the application of artificial intelligence and deep learning techniques using the popular Python libraries TensorFlow and Keras By the end of this book you'll be able to develop advanced computer vision applications to meet your customers demands What you will learn Handle files and images and explore various image

processing techniquesExplore image transformations including translation resizing and croppingGain insights into building histogramsBrush up on contour detection filtering and drawingWork with Augmented Reality to build marker based and markerless applicationsWork with the main machine learning algorithms in OpenCVExplore the deep learning Python libraries and OpenCV deep learning capabilitiesCreate computer vision and deep learning web applicationsWho this book is for This book is designed for computer vision developers engineers and researchers who want to develop modern computer vision applications Basic experience of OpenCV and Python programming is a must **Mastering OpenCV 4** Roy Shilkrot,David Millán Escrivá,2018-12-27 Work on practical computer vision projects covering advanced object detector techniques and modern deep learning and machine learning algorithms Key FeaturesLearn about the new features that help unlock the full potential of OpenCV 4Build face detection applications with a cascade classifier using face landmarksCreate an optical character recognition OCR model using deep learning and convolutional neural networksBook Description Mastering OpenCV now in its third edition targets computer vision engineers taking their first steps toward mastering OpenCV Keeping the mathematical formulations to a solid but bare minimum the book delivers complete projects from ideation to running code targeting current hot topics in computer vision such as face recognition landmark detection and pose estimation and number recognition with deep convolutional networks You ll learn from experienced OpenCV experts how to implement computer vision products and projects both in academia and industry in a comfortable package You ll get acquainted with API functionality and gain insights into design choices in a complete computer vision project You ll also go beyond the basics of computer vision to implement solutions for complex image processing projects By the end of the book you will have created various working prototypes with the help of projects in the book and be well versed with the new features of OpenCV4 What you will learnBuild real world computer vision problems with working OpenCV code samplesUncover best practices in engineering and maintaining OpenCV projectsExplore algorithmic design approaches for complex computer vision tasksWork with OpenCV s most updated API v4 0 0 through projectsUnderstand 3D scene reconstruction and Structure from Motion SfM Study camera calibration and overlay AR using the ArUco ModuleWho this book is for This book is for those who have a basic knowledge of OpenCV and are competent C programmers You need to have an understanding of some of the more theoretical mathematical concepts as we move quite quickly throughout the book

Building Computer Vision Projects with OpenCV 4 and C++ David Millán Escrivá,Prateek Joshi,Vinícius G. Mendonça,Roy Shilkrot,2019-03-26 Delve into practical computer vision and image processing projects and get up to speed with advanced object detection techniques and machine learning algorithms Key FeaturesDiscover best practices for engineering and maintaining OpenCV projectsExplore important deep learning tools for image classificationUnderstand basic image matrix formats and filtersBook Description OpenCV is one of the best open source libraries available and can help you focus on constructing complete projects on image processing motion detection and image segmentation This Learning Path is

your guide to understanding OpenCV concepts and algorithms through real world examples and activities Through various projects you ll also discover how to use complex computer vision and machine learning algorithms and face detection to extract the maximum amount of information from images and videos In later chapters you ll learn to enhance your videos and images with optical flow analysis and background subtraction Sections in the Learning Path will help you get to grips with text segmentation and recognition in addition to guiding you through the basics of the new and improved deep learning modules By the end of this Learning Path you will have mastered commonly used computer vision techniques to build OpenCV projects from scratch This Learning Path includes content from the following Packt books Mastering OpenCV 4 Third Edition by Roy Shilkrot and David Mill n Escriv Learn OpenCV 4 By Building Projects Second Edition by David Mill n Escriv Vin cius G Mendon a and Prateek JoshiWhat you will learnStay up to date with algorithmic design approaches for complex computer vision tasksWork with OpenCV s most up to date API through various projectsUnderstand 3D scene reconstruction and Structure from Motion SfM Study camera calibration and overlay augmented reality AR using the ArUco moduleCreate CMake scripts to compile your C applicationExplore segmentation and feature extraction techniquesRemove backgrounds from static scenes to identify moving objects for surveillanceWork with new OpenCV functions to detect and recognize text with TesseractWho this book is for If you are a software developer with a basic understanding of computer vision and image processing and want to develop interesting computer vision applications with OpenCV this Learning Path is for you Prior knowledge of C and familiarity with mathematical concepts will help you better understand the concepts in this Learning Path

OpenCV by Example Prateek Joshi,David Millan Escriv,2016-01-22 Enhance your understanding of Computer Vision and image processing by developing real world projects in OpenCV 3About This Book Get to grips with the basics of Computer Vision and image processing This is a step by step guide to developing several real world Computer Vision projects using OpenCV 3 This book takes a special focus on working with Tesseract OCR a free open source library to recognize text in imagesWho This Book Is ForIf you are a software developer with a basic understanding of Computer Vision and image processing and want to develop interesting Computer Vision applications with Open CV this is the book for you Knowledge of C is required What You Will Learn Install OpenCV 3 on your operating system Create the required CMake scripts to compile the C application and manage its dependencies Get to grips with the Computer Vision workflows and understand the basic image matrix format and filters Understand the segmentation and feature extraction techniques Remove backgrounds from a static scene to identify moving objects for video surveillance Track different objects in a live video using various techniques Use the new OpenCV functions for text detection and recognition with TesseractIn DetailOpen CV is a cross platform free for use library that is primarily used for real time Computer Vision and image processing It is considered to be one of the best open source libraries that helps developers focus on constructing complete projects on image processing motion detection and image segmentation Whether you are completely new to the concept of Computer

Vision or have a basic understanding of it this book will be your guide to understanding the basic OpenCV concepts and algorithms through amazing real world examples and projects Starting from the installation of OpenCV on your system and understanding the basics of image processing we swiftly move on to creating optical flow video analysis or text recognition in complex scenes and will take you through the commonly used Computer Vision techniques to build your own Open CV projects from scratch By the end of this book you will be familiar with the basics of Open CV such as matrix operations filters and histograms as well as more advanced concepts such as segmentation machine learning complex video analysis and text recognition Style and approach This book is a practical guide with lots of tips and is closely focused on developing Computer vision applications with OpenCV Beginning with the fundamentals the complexity increases with each chapter Sample applications are developed throughout the book that you can execute and use in your own projects

[OpenCV 3.0 Computer Vision with Java](#) Daniel Lélis Baggio, 2015-07-30 OpenCV 3 0 Computer Vision with Java is a practical tutorial guide that explains fundamental tasks from computer vision while focusing on Java development This book will teach you how to set up OpenCV for Java and handle matrices using the basic operations of image processing such as filtering and image transforms It will also help you learn how to use Haar cascades for tracking faces and to detect foreground and background regions with the help of a Kinect device It will even give you insights into server side OpenCV Each chapter is presented with several projects that are ready to use The functionality of these projects is found in many classes that allow developers to understand computer vision principles and rapidly extend or customize the projects for their needs

[Mastering OpenCV with Python](#) Ayush Vaishya, 2023-11-15 Unlocking Visual Insights OpenCV Made Simple and Powerful KEY FEATURES OpenCV Mastery Harness the full potential of OpenCV Comprehensive Coverage From fundamentals to advanced techniques Practical Exercises Apply knowledge through hands on tasks DESCRIPTION Mastering OpenCV with Python immerses you in the captivating realm of computer vision with a structured approach that equips you with the knowledge and skills essential for success in this rapidly evolving field From grasping the fundamental concepts of image processing and OpenCV to mastering advanced techniques such as neural networks and object detection you will gain a comprehensive understanding Each chapter is enriched with hands on exercises and real world projects ensuring the acquisition of practical skills that can be immediately applied in your professional journey This book not only elevates your technical proficiency but also prepares you for a rewarding career The technological job landscape is constantly evolving and professionals who can harness the potential of computer vision are in high demand By mastering the skills and insights contained within these pages you will be well prepared to explore exciting career opportunities ranging from machine learning engineering to computer vision research This book is your ticket to a future filled with innovation and professional advancement within the dynamic world of computer vision WHAT WILL YOU LEARN Master Image Processing and Machine Learning with OpenCV using advanced Tools and Libraries Create Real World Projects with Hands On Experience Explore Machine Learning for Computer Vision

Develop Confidence in Practical Computer Vision Projects Conquer Real World Image Processing Challenges Apply Computer Vision Across Diverse Industries Boost Your Career in Computer Vision Become an Expert in Computer Vision for Career Advancement WHO IS THIS BOOK FOR This beginner friendly book in computer vision requires no prior experience making it accessible to newcomers While a basic programming understanding is helpful it s designed to guide individuals from diverse backgrounds into the captivating realms of AI computer vision and image processing It s equally valuable for aspiring tech professionals students and enthusiasts seeking rewarding careers and knowledge in these cutting edge fields TABLE OF CONTENTS 1 Introduction to Computer Vision 2 Getting Started with Images 3 Image Processing Fundamentals 4 Image Operations 5 Image Histograms 6 Image Segmentation 7 Edges and Contours 8 Machine Learning with Images 9 Advanced Computer Vision Algorithms 10 Neural Networks 11 Object Detection Using OpenCV 12 Projects Using OpenCV Index

Hands-on ML Projects with OpenCV: Master Computer Vision and Machine Learning using OpenCV and Python Mugesh S.,2023-08-09 Be at your A game in building Intelligent systems by leveraging Computer vision and Machine Learning Key Features Step by step instructions and code snippets for real world ML projects Covers entire spectrum from basics to advanced concepts such as deep learning transfer learning and model optimization Loaded with practical tips and best practices for implementing machine learning with OpenCV for optimising your workflow Book Description This book is an in depth guide that merges machine learning techniques with OpenCV the most popular computer vision library using Python The book introduces fundamental concepts in machine learning and computer vision progressing to practical implementation with OpenCV Concepts related to image preprocessing contour and thresholding techniques motion detection and tracking are explained in a step by step manner using code and output snippets Hands on projects with real world datasets will offer you an invaluable experience in solving OpenCV challenges with machine learning It s an ultimate guide to explore areas like deep learning transfer learning and model optimization empowering readers to tackle complex tasks Every chapter offers practical tips and tricks to build effective ML models By the end you would have mastered and applied ML concepts confidently to real world computer vision problems and will be able to develop robust and accurate machine learning models for diverse applications Whether you are new to machine learning or seeking to enhance your computer vision skills This book is an invaluable resource for mastering the integration of machine learning and computer vision using OpenCV and Python What you will learn Learn how to work with images and perform basic image processing tasks using OpenCV Implement machine learning techniques to computer vision tasks such as image classification object detection and image segmentation Work on real world projects and datasets to gain hands on experience in applying machine learning techniques with OpenCV Explore the concepts of deep learning using Tensorflow and Keras and how it can be used for computer vision tasks Who is this book for This book is for everyone with a basic understanding of programming and who wants to apply machine learning in computer vision using OpenCV and Python Whether you re a student researcher or developer this book

will equip you with practical skills for machine learning projects Some familiarity with Python and machine learning concepts is assumed

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Learn OpenCV 4 by Building Projects David Millán Escrivá,Vinícius G. Mendonça,Prateek Joshi,2018-11-30

Explore OpenCV 4 to create visually appealing cross platform computer vision applications

Key Features

- Understand basic OpenCV 4 concepts and algorithms
- Grasp advanced OpenCV techniques such as 3D reconstruction machine learning and artificial neural networks
- Work with Tesseract OCR an open source library to recognize text in images

Book Description

OpenCV is one of the best open source libraries available and can help you focus on constructing complete projects on image processing motion detection and image segmentation Whether you re completely new to computer vision or have a basic understanding of its concepts *Learn OpenCV 4 by Building Projects* Second edition will be your guide to understanding OpenCV concepts and algorithms through real world examples and projects You ll begin with the installation of OpenCV and the basics of image processing Then you ll cover user interfaces and get deeper into image processing As you progress through the book you ll learn complex computer vision algorithms and explore machine learning and face detection The book then guides you in creating optical flow video analysis and background subtraction in complex scenes In the concluding chapters you ll also learn about text segmentation and recognition and understand the basics of the new and improved deep learning module By the end of this book you ll be familiar with the basics of Open CV such as matrix operations filters and histograms and you ll have mastered commonly used computer vision techniques to build OpenCV projects from scratch

What you will learn

- Install OpenCV 4 on your operating system
- Create CMake scripts to compile your C application
- Understand basic image matrix formats and filters
- Explore segmentation and feature extraction techniques
- Remove backgrounds from static scenes to identify moving objects for surveillance
- Employ various techniques to track objects in a live video
- Work with new OpenCV functions for text detection and recognition with Tesseract
- Get acquainted with important deep learning tools for image classification

Who this book is for If you are a software developer with a basic understanding of computer vision and image processing and want to develop interesting computer vision applications with OpenCV

Learn OpenCV 4 by Building Projects for you Prior knowledge of C will help you understand the concepts covered in this book

Mastering OpenCV 4 - Third Edition Roy Shilkrot,David Escrive,2018

Work on practical computer vision projects covering advanced object detector techniques and modern deep learning and machine learning algorithms

Key Features

- Learn about the new features that help unlock the full potential of OpenCV 4
- Build face detection applications with a cascade classifier using face

landmarks Create an optical character recognition OCR model using deep learning and convolutional neural networks Book Description Mastering OpenCV now in its third edition targets computer vision engineers taking their first steps toward mastering OpenCV Keeping the mathematical formulations to a solid but bare minimum the book delivers complete projects from ideation to running code targeting current hot topics in computer vision such as face recognition landmark detection and pose estimation and number recognition with deep convolutional networks You ll learn from experienced OpenCV experts how to implement computer vision products and projects both in academia and industry in a comfortable package You ll get acquainted with API functionality and gain insights into design choices in a complete computer vision project You ll also go beyond the basics of computer vision to implement solutions for complex image processing projects By the end of the book you will have created various working prototypes with the help of projects in the book and be well versed with the new features of OpenCV4 What you will learn Build real world computer vision problems with working OpenCV code samples Uncover best practices in engineering and maintaining OpenCV projects Explore algorithmic design approaches for complex computer vision tasks Work with OpenCV s most updated API v4 0 0 through projects Understand 3D scene reconstruction and Structure from Motion SfM Study camera calibration and overlay AR using the ArUco Module Who this book is for This book is for those who have a basic knowledge of OpenCV and are competent C programmers You need to have an understanding of some of the more theoretical mathematical concepts as we move quite quickly throughout the book Downloading the example code for this book You can download the example code files for all Packt books you have purchased from your account at <http://www.PacktPub.com> If you purchased this book elsewhere you can visit <http://www.PacktPub.com> support and register to have the files e mailed directly to you *Computer Vision Projects with OpenCV and Python 3* Matthew Rever,2018-12-28 Gain a working knowledge of advanced machine learning and explore Python s powerful tools for extracting data from images and videos Key FeaturesImplement image classification and object detection using machine learning and deep learningPerform image classification object detection image segmentation and other Computer Vision tasksCrisp content with a practical approach to solving real world problems in Computer VisionBook Description Python is the ideal programming language for rapidly prototyping and developing production grade codes for image processing and Computer Vision with its robust syntax and wealth of powerful libraries This book will help you design and develop production grade Computer Vision projects tackling real world problems With the help of this book you will learn how to set up Anaconda and Python for the major OSes with cutting edge third party libraries for Computer Vision You ll learn state of the art techniques for classifying images finding and identifying human postures and detecting faces within videos You will use powerful machine learning tools such as OpenCV Dlib and TensorFlow to build exciting projects such as classifying handwritten digits detecting facial features and much more The book also covers some advanced projects such as reading text from license plates from real world images using Google s Tesseract software and tracking human body poses using

DeeperCut within TensorFlow By the end of this book you will have the expertise required to build your own Computer Vision projects using Python and its associated libraries What you will learn Install and run major Computer Vision packages within Python Apply powerful support vector machines for simple digit classification Understand deep learning with TensorFlow Build a deep learning classifier for general images Use LSTMs for automated image captioning Read text from real world images Extract human pose data from images Who this book is for Python programmers and machine learning developers who wish to build exciting Computer Vision projects using the power of machine learning and OpenCV will find this book useful The only prerequisite for this book is that you should have a sound knowledge of Python programming **Mastering**

OpenCV 4 Roy Shilkrot, 2018 **Mastering OpenCV with Python: Use NumPy, Scikit, TensorFlow, and Matplotlib to learn Advanced algorithms for Machine Learning through a set of Practical Projects** Ayush Vaishya, 2023-11-16

Unlocking Visual Insights OpenCV Made Simple and Powerful Key Features OpenCV Mastery Harness the full potential of OpenCV Comprehensive Coverage From fundamentals to advanced techniques Practical Exercises Apply knowledge through hands on tasks Book Description Mastering OpenCV with Python immerses you in the captivating realm of computer vision with a structured approach that equips you with the knowledge and skills essential for success in this rapidly evolving field From grasping the fundamental concepts of image processing and OpenCV to mastering advanced techniques such as neural networks and object detection you will gain a comprehensive understanding Each chapter is enriched with hands on exercises and real world projects ensuring the acquisition of practical skills that can be immediately applied in your professional journey This book not only elevates your technical proficiency but also prepares you for a rewarding career The technological job landscape is constantly evolving and professionals who can harness the potential of computer vision are in high demand By mastering the skills and insights contained within these pages you will be well prepared to explore exciting career opportunities ranging from machine learning engineering to computer vision research This book is your ticket to a future filled with innovation and professional advancement within the dynamic world of computer vision What you will learn Master Image Processing and Machine Learning with OpenCV using advanced Tools and Libraries Create Real World Projects with Hands On Experience Explore Machine Learning for Computer Vision Develop Confidence in Practical Computer Vision Projects Conquer Real World Image Processing Challenges Apply Computer Vision Across Diverse Industries Boost Your Career in Computer Vision Become an Expert in Computer Vision for Career Advancement Who is this book for This beginner friendly book in computer vision requires no prior experience making it accessible to newcomers While a basic programming understanding is helpful it is designed to guide individuals from diverse backgrounds into the captivating realms of AI computer vision and image processing It is equally valuable for aspiring tech professionals students and enthusiasts seeking rewarding careers and knowledge in these cutting edge fields Table of Contents 1 Introduction to Computer Vision 2 Getting Started with Images 3 Image Processing Fundamentals 4 Image Operations 5 Image Histograms 6

Image Segmentation 7 Edges and Contours 8 Machine Learning with Images 9 Advanced Computer Vision Algorithms 10 Neural Networks 11 Object Detection Using OpenCV 12 Projects Using OpenCV Index *Learning OpenCV 3 Application Development* Samyak Datta, 2016-12-19 Build create and deploy your own computer vision applications with the power of OpenCV About This Book This book provides hands on examples that cover the major features that are part of any important Computer Vision application It explores important algorithms that allow you to recognize faces identify objects extract features from images help your system make meaningful predictions from visual data and much more All the code examples in the book are based on OpenCV 3.1 the latest version Who This Book Is For This is the perfect book for anyone who wants to dive into the exciting world of image processing and computer vision This book is aimed at programmers with a working knowledge of C Prior knowledge of OpenCV or Computer Vision Machine Learning is not required What You Will Learn Explore the steps involved in building a typical computer vision machine learning application Understand the relevance of OpenCV at every stage of building an application Harness the vast amount of information that lies hidden in images into the apps you build Incorporate visual information in your apps to create more appealing software Get acquainted with how large scale and popular image editing apps such as Instagram work behind the scenes by getting a glimpse of how the image filters in apps can be recreated using simple operations in OpenCV Appreciate how difficult it is for a computer program to perform tasks that are trivial for human beings Get to know how to develop applications that perform face detection gender detection from facial images and handwritten character digit recognition In Detail Computer vision and machine learning concepts are frequently used in practical computer vision based projects If you're a novice this book provides the steps to build and deploy an end to end application in the domain of computer vision using OpenCV C At the outset we explain how to install OpenCV and demonstrate how to run some simple programs You will start with images the building blocks of image processing applications and see how they are stored and processed by OpenCV You'll get comfortable with OpenCV specific jargon Mat Point Scalar and more and get to know how to traverse images and perform basic pixel wise operations Building upon this we introduce slightly more advanced image processing concepts such as filtering thresholding and edge detection In the latter parts the book touches upon more complex and ubiquitous concepts such as face detection using Haar cascade classifiers interest point detection algorithms and feature descriptors You will now begin to appreciate the true power of the library in how it reduces mathematically non trivial algorithms to a single line of code The concluding sections touch upon OpenCV's Machine Learning module You will witness not only how OpenCV helps you pre process and extract features from images that are relevant to the problems you are trying to solve but also how to use Machine Learning algorithms that work on these features to make intelligent predictions from visual data Style and approach This book takes a very hands on approach to developing an end to end application with OpenCV To avoid being too theoretical the description of concepts are accompanied simultaneously by the development of applications Throughout the course of the book the projects and practical

real life examples are explained and developed step by step in sync with the theory OpenCV with Python Blueprints
Michael Beyeler, 2015-10-19 Design and develop advanced computer vision projects using OpenCV with Python About This Book Program advanced computer vision applications in Python using different features of the OpenCV library Practical end to end project covering an important computer vision problem All projects in the book include a step by step guide to create computer vision applications Who This Book Is For This book is for intermediate users of OpenCV who aim to master their skills by developing advanced practical applications Readers are expected to be familiar with OpenCV's concepts and Python libraries Basic knowledge of Python programming is expected and assumed What You Will Learn Generate real time visual effects using different filters and image manipulation techniques such as dodging and burning Recognize hand gestures in real time and perform hand shape analysis based on the output of a Microsoft Kinect sensor Learn feature extraction and feature matching for tracking arbitrary objects of interest Reconstruct a 3D real world scene from 2D camera motion and common camera reprojection techniques Track visually salient objects by searching for and focusing on important regions of an image Detect faces using a cascade classifier and recognize emotional expressions in human faces using multi layer perceptrons MLPs Recognize street signs using a multi class adaptation of support vector machines SVMs Strengthen your OpenCV2 skills and learn how to use new OpenCV3 features In Detail OpenCV is a native cross platform C Library for computer vision machine learning and image processing It is increasingly being adopted in Python for development OpenCV has C C Python and Java interfaces with support for Windows Linux Mac iOS and Android Developers using OpenCV build applications to process visual data this can include live streaming data from a device like a camera such as photographs or videos OpenCV offers extensive libraries with over 500 functions This book demonstrates how to develop a series of intermediate to advanced projects using OpenCV and Python rather than teaching the core concepts of OpenCV in theoretical lessons Instead the working projects developed in this book teach the reader how to apply their theoretical knowledge to topics such as image manipulation augmented reality object tracking 3D scene reconstruction statistical learning and object categorization By the end of this book readers will be OpenCV experts whose newly gained experience allows them to develop their own advanced computer vision applications Style and approach This book covers independent hands on projects that teach important computer vision concepts like image processing and machine learning for OpenCV with multiple examples

As recognized, adventure as capably as experience virtually lesson, amusement, as skillfully as pact can be gotten by just checking out a book **Mastering Opencv With Practical Computer Vision Projects Emami Shervin** with it is not directly done, you could receive even more approximately this life, as regards the world.

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