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Openni

Michael Brown

Openni:

Learning Robotics using Python Lentin Joseph,2018-06-27 Design simulate and program interactive robots Key Features Design simulate build and program an interactive autonomous mobile robot Leverage the power of ROS Gazebo and Python to enhance your robotic skills A hands on guide to creating an autonomous mobile robot with the help of ROS and Python Book DescriptionRobot Operating System ROS is one of the most popular robotics software frameworks in research and industry It has various features for implementing different capabilities in a robot without implementing them from scratch This book starts by showing you the fundamentals of ROS so you understand the basics of differential robots Then you ll learn about robot modeling and how to design and simulate it using ROS Moving on we ll design robot hardware and interfacing actuators Then you ll learn to configure and program depth sensors and LIDARs using ROS Finally you ll create a GUI for your robot using the Qt framework By the end of this tutorial you ll have a clear idea of how to integrate and assemble everything into a robot and how to bundle the software package What you will learn Design a differential robot from scratch Model a differential robot using ROS and URDF Simulate a differential robot using ROS and Gazebo Design robot hardware electronics Interface robot actuators with embedded boards Explore the interfacing of different 3D depth cameras in ROS Create a GUI for robot control Who this book is for This book is for those who are conducting research in mobile robotics and autonomous navigation As well as the robotics research domain this book is also for the robot hobbyist community You re expected to have a basic understanding of Linux commands and Python **DEPTH IMAGING AND APPLICATION IN POTATO QUALITY GRADING** Qinghua Su,2023-11-25 As one of the world s most important crops potatoes play an important role in maintaining the stability of the global food supply Many countries including China believe that food supply security is a basic condition for maintaining national stability and development Therefore potatoes can not only solve the problem of international food shortage but also promote the development of international trade In recent years with the continuous improvement of planting technology the global production and trade volume of potatoes have also been continuously increasing However the development of traditional potato quality grading technology is relatively slow Currently it still relies on manual sorting in many countries and regions Because workers can not keep their attention for a long time under huge work pressure and their understanding of grading standards is inconsistent large amount of wrong potato grading often occurs This result not only affects farmers income but also causes serious waste in the potato processing due to unqualified raw potatoes In addition with the continuous increase of manual wages the cost of manual grading of potatoes has under challenge Therefore achieving automation of potato quality grading is imperative Traditional grading system mainly uses cameras to capture potato color images and achieves potato quality grading through color information analysis This method can reach high success rate for certain defects detection such as green skin surface rot and mechanical damage Due to the variety of shapes of potatoes growing underground the appearance defects such as bending

bump and hollow are widely existing These abnormal samples may fail to be detected and grade to wrong quality groups the 3D appearance information cannot be fully perceived in 2D color images In response to such issues we have decided to build a machine vision system based on depth cameras which can obtain depth images of potatoes with 3D shape information Unlike each pixel in a color image that stores color information each pixel in a depth image stores the distance from the target to the camera Therefore the potato 3D surface features can be sensed and used for bump and hollow defects detection To capture high quality depth images we have constructed a specialized depth imaging system and developed the image acquisition software based on OpenCV and OpenNI framework Then each potato surface features are analyzed and extracted for shape analysis defect detection and overall quality grading In recent years machine learning technology has developed rapidly and has been widely applied in fields such as object recognition and feature detection Hence we also apply machine learning technology to the field of potato quality grading By developing a machine learning model based on convolutional neural networks we can directly input potato depth images and get the corresponding quality level of the samples The experiment achieved good grading results Since color and depth images of potatoes are actually collected simultaneously in data collection step a novel algorithm is developed for potato 3D model rebuilding The method is based on Point Cloud Library and OpenGL technology and it shows the advantage in solving the problem of data traceability especially when users have objections to automatic quality classification results This model not only displays 3D potato shape model but also supports scaling and 360 degree rotation operations Overall we believe that with the development of machine learning and depth sensing potato quality grading systems will become more intelligent efficient and low cost   **Making Things See** Greg Borenstein,2012-01-13 This detailed hands on guide provides the technical and conceptual information you need to build cool applications with Microsoft s Kinect the amazing motion sensing device that enables computers to see Through half a dozen meaty projects you ll learn how to create gestural interfaces for software use motion capture for easy 3D character animation 3D scanning for custom fabrication and many other applications Perfect for hobbyists makers artists and gamers Making Things See shows you how to build every project with inexpensive off the shelf components including the open source Processing programming language and the Arduino microcontroller You ll learn basic skills that will enable you to pursue your own creative applications with Kinect Create Kinect applications on Mac OS X Windows or Linux Track people with pose detection and skeletonization and use blob tracking to detect objects Analyze and manipulate point clouds Make models for design and fabrication using 3D scanning technology Use MakerBot RepRap or Shapeways to print 3D objects Delve into motion tracking for animation and games Build a simple robot arm that can imitate your arm movements Discover how skilled artists have used Kinect to build fascinating projects   **Arduino and Kinect Projects** Enrique Ramos Melgar,Ciriaco Castro Diez,2012-06-09 If you ve done some Arduino tinkering and wondered how you could incorporate the Kinect or the other way around then this book is for you The authors of Arduino and Kinect Projects will show you how to

create 10 amazing creative projects from simple to complex You ll also find out how to incorporate Processing in your project design a language very similar to the Arduino language The ten projects are carefully designed to build on your skills at every step Starting with the Arduino and Kinect equivalent of Hello World the authors will take you through a diverse range of projects that showcase the huge range of possibilities that open up when Kinect and Arduino are combined Gesture based Remote Control Control devices and home appliances with hand gestures Kinect networked Puppet Play with a physical puppet remotely using your whole body Mood Lamps Build your own set of responsive gesture controllable LED lamps Drawing Robot Control a drawing robot using a Kinect based tangible table Remote controlled Vehicle Use your body gestures to control a smart vehicle Biometric Station Use the Kinect for biometric recognition and checking Body Mass Indexes 3D Modeling Interface Learn how to use the Arduino LilyPad to build a wearable 3D modelling interface 360o Scanner Build a turntable scanner and scan any object 360o using only one Kinect Delta Robot Build and control your own fast and accurate parallel robot   *OpenCV 3 Blueprints* Joseph Howse,Steven Puttemans,Quan Hua,Utkarsh Sinha,2015-11-10 Expand your knowledge of computer vision by building amazing projects with OpenCV 3 About This Book Build computer vision projects to capture high quality image data detect and track objects process the actions of humans or animals and much more Discover practical and interesting innovations in computer vision while building atop a mature open source library OpenCV 3 Familiarize yourself with multiple approaches and theories wherever critical decisions need to be made Who This Book Is For This book is ideal for you if you aspire to build computer vision systems that are smarter faster more complex and more practical than the competition This is an advanced book intended for those who already have some experience in setting up an OpenCV development environment and building applications with OpenCV You should be comfortable with computer vision concepts object oriented programming graphics programming IDEs and the command line What You Will Learn Select and configure camera systems to see invisible light fast motion and distant objects Build a camera trap as used by nature photographers and process photos to create beautiful effects Develop a facial expression recognition system with various feature extraction techniques and machine learning methods Build a panorama Android application using the OpenCV stitching module in C with NDK support Optimize your object detection model make it rotation invariant and apply scene specific constraints to make it faster and more robust Create a person identification and registration system based on biometric properties of that person such as their fingerprint iris and face Fuse data from videos and gyroscopes to stabilize videos shot from your mobile phone and create hyperlapse style videos In Detail Computer vision is becoming accessible to a large audience of software developers who can leverage mature libraries such as OpenCV However as they move beyond their first experiments in computer vision developers may struggle to ensure that their solutions are sufficiently well optimized well trained robust and adaptive in real world conditions With sufficient knowledge of OpenCV these developers will have enough confidence to go about creating projects in the field of computer vision This

book will help you tackle increasingly challenging computer vision problems that you may face in your careers It makes use of OpenCV 3 to work around some interesting projects Inside these pages you will find practical and innovative approaches that are battle tested in the authors industry experience and research Each chapter covers the theory and practice of multiple complementary approaches so that you will be able to choose wisely in your future projects You will also gain insights into the architecture and algorithms that underpin OpenCV s functionality We begin by taking a critical look at inputs in order to decide which kinds of light cameras lenses and image formats are best suited to a given purpose We proceed to consider the finer aspects of computational photography as we build an automated camera to assist nature photographers You will gain a deep understanding of some of the most widely applicable and reliable techniques in object detection feature selection tracking and even biometric recognition We will also build Android projects in which we explore the complexities of camera motion first in panoramic image stitching and then in video stabilization By the end of the book you will have a much richer understanding of imaging motion machine learning and the architecture of computer vision libraries and applications Style and approach This book covers a combination of theory and practice We examine blueprints for specific projects and discuss the principles behind these blueprints in detail **Proceedings of the 19'th Annual Tcl Assocation Tcl/Tk conference** Tcl Association Press,2012-12-31 Conference proceedings of the U S Tcl conference of 2012 **Electrodynamic and Mechatronic Systems** Bronisław Tomczuk,Andrzej Waindok,Jan Zimon,2014-02-27 Selected peer reviewed extended papers from the International Symposium on Electrodynamic and Mechatronic Systems SELM 2013 May 15 18 2013 Zawiercie Poland **OpenNI Cookbook** Soroush Falahati,2013-01-01 This is a Cookbook with plenty of practical recipes enriched with explained code and relevant screenshots to ease your learning curve If you are a beginner or a professional in NIUI and want to write serious applications or games then this book is for you Even OpenNI 1 and OpenNI 1 x programmers who want to move to new versions of OpenNI can use this book as a starting point This book uses C as the primary language but there are some examples in C and Java too so you need to have about a basic working knowledge of C or C for most cases **Philatelic Terms Illustrated** ,1978 Philately has an extensive language of its own used in stamp catalogues handbooks albums magazines price lists and auction catalogues This new edition of an established reference work defines the main printing methods papers types of stamps errors varieties watermarks perforations and postal services a stamp collector will find referred to in his reading Special attention has been paid to the terms used in describing postal history now a popular branch of philately Illustrated in black white and colour with many items from the famous S G Philatelic Terms reference collection This book provides the answers to most problems of terminology and will enable collectors beginners or experienced philatelists to gain full enjoyment from their hobby **Computer Science Logic** ,2001 **Scalable, High-performance Parallel Branch-and-bound Algorithms for Solving Large Combinatorial Optimization Problems** Nihar Ranjan Mahapatra,1997 **Cartoons Magazine** Henry Havens Windsor,1919 **The**

Victorian Land Planarians Arthur Dendy,1890   The Annual Report of the Commissioner of Immigration and Housing of California, [1913/14-1926] ... California. Commission of Immigration and Housing,1915   **Camp Sanitation; Drinking Water Supply, Sewage & Refuse Disposal, Swimming Pools, Insect & Pest Control** Boy Scouts of America,1928

        Grammaire de la langue montagnaise Laurent Legoff,1889   *A Dictionary of the Language of Mota, Sugarloaf Island, Banks' Islands* Robert Henry Codrington,J. Palmer,1896   A Comparative Study of the Melanesian Island Languages Sidney Herbert Ray,1926   **Illustrated Sporting & Dramatic News** ,1919   **Texts and Analysis of Cold Lake Dialect, Chipewyan** Pliny Earle Goddard,1912

Decoding **Openni**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Openni**," a mesmerizing literary creation penned with a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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