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Android Application Programming with OpenCV

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in 2D and 3D

Joseph Howse

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Android Application Programming With Opencv

**Andreas Goransson,David Cuartielles
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Mastering OpenCV Android Application Programming Salil Kapur,Nisarg Thakkar,2015-07-29 OpenCV is a famous computer vision library used to analyze and transform copious amounts of image data even in real time and on a mobile device This book focuses on leveraging mobile platforms to build interactive and useful applications The book starts off with an introduction to OpenCV and Android and how they interact with each other using OpenCV's Java API You'll also discover basic image processing techniques such as erosion and dilation of images before walking through how to build more complex applications such as object detection image stitching and face detection As you progress you will be introduced to OpenCV's machine learning framework enabling you to make your applications smarter The book ends with a short chapter covering useful Android tips and tricks and some common errors and solutions that people might face while building an application By the end of the book readers will have gained more expertise in building their own OpenCV projects for the Android platform and integrating OpenCV application programming into existing projects

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Python Game Programming By Example Alejandro Rodas de Paz, Joseph Howse, 2015-09-28 A pragmatic guide for developing your own games with Python About This Book Strengthen your fundamentals of game programming with Python language Seven hands on games to create 2D and 3D games rapidly from scratch Illustrative guide to explore the different GUI libraries for building your games Who This Book Is For If you have ever wanted to create casual games in Python and you would like to explore various GUI technologies that this language offers this is the book for you This title is intended for beginners to Python with little or no knowledge of game development and it covers step by step how to build seven different games from the well known Space Invaders to a classical 3D platformer What You Will Learn Take advantage of Python's clean syntax to build games quickly Discover distinct frameworks for developing graphical applications Implement non player characters NPCs with autonomous and seemingly intelligent behaviors Design and code some popular games like Pong and tower defense Compose maps and levels for your sprite based games in an easy manner Modularize and apply object oriented principles during the design of your games Exploit libraries like Chimpunk2D cocos2d and Tkinter Create natural user interfaces NUIs using a camera and computer vision algorithms to interpret the player's real world actions In Detail With a growing interest in learning to program game development is an appealing topic for getting started with coding From geometry to basic Artificial Intelligence algorithms there are plenty of concepts that can be applied in almost every game Python is a widely used general purpose high level programming language It provides constructs intended to enable clear programs on both a small and large scale It is the third most popular language whose grammatical syntax is not predominantly based on C Python is also very easy to code and is also highly flexible which is exactly what is required for game development The user friendliness of this language allows beginners to code games without too much effort or training Python also works with very little code and in most cases uses the use cases approach reserving lengthy explicit coding for outliers and exceptions making game development an achievable feat Python Game Programming by Example enables readers to develop cool and popular games in Python without having in depth programming knowledge of Python The book includes seven hands on projects developed with several well known Python packages as well as a comprehensive explanation about the theory and design of each game It will teach readers about the techniques of game design and coding of some popular games like Pong and tower defense Thereafter it will allow readers to

add levels of complexities to make the games more fun and realistic using 3D At the end of the book you will have added several GUI libraries like Chimpunk2D cocos2d and Tkinter in your tool belt as well as a handful of recipes and algorithms for developing games with Python Style and approach This book is an example based guide that will teach you to build games using Python This book follows a step by step approach as it is aimed at beginners who would like to get started with basic game development By the end of this book you will be competent game developers with good knowledge of programming in Python

Professional Android Open Accessory Programming with Arduino Andreas Goransson,David Cuartielles Ruiz,2013-01-04 Learn how to control your home or car from your Android smartphone air conditioning lights entertainment systems and more Android Open Accessory is a new simple and secure protocol for connecting any microcontroller empowered device to an Android smartphone or tablet This Wrox guide shows Android programmers how to use AOA with Arduino the microcontroller platform to control such systems as lighting air conditioning and entertainment systems from Android devices Furthermore it teaches the circuit building skills needed to create games and practical products that also take advantage of Android technology Introduces Android Open Accessory and shows how to set up the hardware and development environment Explains how to code both Android and Arduino elements of an accessory Features four complete projects developers can build using various sensors and indicators actuators including source code Gives Android developers the tools to create powerful sophisticated projects Professional Android Open Accessory with Android ADK and Arduino opens exciting new opportunities for Android developers

Soft Computing and Signal Processing Jiacun Wang,G. Ram Mohana Reddy,V. Kamakshi Prasad,V. Sivakumar Reddy,2019-02-13 The book includes research papers on current developments in the field of soft computing and signal processing selected from papers presented at the International Conference on Soft Computing and Signal Processing ICSCSP 2018 It features papers on current topics such as soft sets rough sets fuzzy logic neural networks genetic algorithms and machine learning It also discusses various aspects of these topics like technologies product implementation and application issues

Bonita Open Solution 5.x Essentials Rohit Bhat,2013-11-15 A practical intuitive guide for modeling complex business processes as full scale applications using the ease and power of Bonita Open Solution If you are a business application developer looking forward to model business processes intuitively in a workflow with various conditions and transitions then this book is for you Basic knowledge of Java or Groovy is necessary to help you develop these applications Knowledge of HTML and JavaScript JQuery will be helpful but not mandatory

Phenomics John Doonan,Marcos Egea-Cortines,2018-11-08 Phenomics is an emerging area of research whose aspiration is the systematic measurement of the physical physiological and biochemical traits the phenome belonging to a given individual or collection of individuals Non destructive or minimally invasive techniques allow repeated measurements across time to follow phenotypes as a function of developmental time These longitudinal traits promise new insights into the ways in which crops respond to their environment including how they are managed To maximize the benefit

these approaches should ideally be scalable so that large populations in multiple environments can be sampled repeatedly at reasonable cost. Thus the development and validation of non contact sensing technologies remains an area of intensive activity that ranges from Remote Sensing of crops within the landscape to high resolution at the subcellular level. Integration of this potentially highly dimensional data and linking it with variation at the genetic level is an ongoing challenge that promises to release the potential of both established and under exploited crops. 2013 International Conference on Advanced Education Technology and Management Science(AETMS2013) S. K. Chen,T.R. Vijayaram,2013-12-12 2013 International Conference on Advanced Education Technology and Management Science AETMS2013 aims to provide a forum for accessing to the most up to date and authoritative knowledge from both Education Technology and Management Science. AETMS2013 features unique mixed topics of Education technology Teaching theory psychology Sport Pedagogy Management science and engineering Finance and economics and so on. The goal of this conference is to bring researchers engineers and students to the areas of Education Technology and Management Science to share experiences and original research contributions on those topics.

iOS Application Development with OpenCV 3 Joseph Howse,2016-06-30 Create four mobile apps and explore the world through photography and computer vision. About This Book Efficiently harness iOS and OpenCV to capture and process high quality images at high speed. Develop photographic apps and augmented reality apps quickly and easily. Detect recognize and morph faces and objects. Who This Book Is For If you want to do computational photography and computer vision on Apple s mobile devices then this book is for you. No previous experience with app development or OpenCV is required. However basic knowledge of C or Objective C is recommended. What You Will Learn Use Xcode and Interface Builder to develop iOS apps. Obtain OpenCV s standard modules and build extra modules from source. Control all the parameters of the iOS device s camera. Capture save and share photos and videos. Analyze colors shapes and textures in ordinary and specialized photographs. Blend and compare images to create special photographic effects and augmented reality tools. Detect faces and morph facial features. Classify coins and other objects. In Detail iOS Application Development with OpenCV 3 enables you to turn your smartphone camera into an advanced tool for photography and computer vision. Using the highly optimized OpenCV library you will process high resolution images in real time. You will locate and classify objects and create models of their geometry. As you develop photo and augmented reality apps you will gain a general understanding of iOS frameworks and developer tools plus a deeper understanding of the camera and image APIs. After completing the book s four projects you will be a well rounded iOS developer with valuable experience in OpenCV. Style and approach The book is practical creative and precise. It shows you the steps to create and customize five projects that solve important problems for beginners in mobile app development and computer vision. Complete source code and numerous visual aids are included in each chapter. Experimentation is an important part of the book. You will use computer vision to explore the real world and then you will refine the projects based on your findings. Intelligent Computing

Methodologies De-Shuang Huang, Kang-Hyun Jo, Ling Wang, 2014-07-05 This book in conjunction with the volumes LNCS 8588 and LNBI 8590 constitutes the refereed proceedings of the 10th International Conference on Intelligent Computing ICIC 2014 held in Taiyuan China in August 2014. The 85 papers of this volume were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections such as soft computing, artificial bee colony algorithms, unsupervised learning, kernel methods, and supporting vector machines, machine learning, fuzzy theory and algorithms, image processing, intelligent computing in computer vision, intelligent computing in communication networks, intelligent image document retrievals, intelligent data analysis and prediction, intelligent agent and Web applications, intelligent fault diagnosis, knowledge representation, reasoning, knowledge discovery and data mining, natural language processing and computational linguistics, next gen sequencing and metagenomics, intelligent computing in scheduling and engineering optimization, advanced modeling, control and optimization techniques for complex engineering systems, complex networks and their applications, time series forecasting and analysis using artificial neural networks, computer human interaction using multiple visual cues, and intelligent computing, biometric system and security for intelligent computing. *Proceedings of the 2nd International Conference on Intelligent Technologies and Engineering Systems (ICITES2013)* Jengnan Juang, Cheng-Yi Chen, Cheng-Fu Yang, 2014-04-18 This book includes the original peer reviewed research papers from the conference Proceedings of the 2nd International Conference on Intelligent Technologies and Engineering Systems ICITES2013 which took place on December 12-14, 2013 at Cheng Shiu University in Kaohsiung, Taiwan. Topics covered include laser technology, wireless and mobile networking, lean and agile manufacturing, speech processing, microwave dielectrics, intelligent circuits and systems, 3D graphics, communications and structure dynamics and control. *INCREaSE* António Mortal, Jaime Aníbal, Jânio Monteiro, Cláudia Sequeira, Jorge Semião, Manuela Moreira da Silva, Miguel Oliveira, 2018-01-04 This book presents the proceedings of the International Congress on Engineering and Sustainability in the XXI Century INCREaSE 2017 which was held in Faro, Portugal from October 11 to 13, 2017. The book promotes a multidisciplinary approach to sustainable development, exploring a number of transversal challenges. It discusses natural and anthropogenic risks, tourism and sustainability, healthy food, water and society, sustainable mobility, renewable energy and energy efficiency, offering perspectives from civil, electronics, mechanical and food engineering. Intelligent Technologies and Engineering Systems Jengnan Juang, Yi-Cheng Huang, 2013-05-21 This book concentrates on intelligent technologies as it relates to engineering systems. The book covers the following topics: networking, signal processing, artificial intelligence, control and software engineering, intelligent electronic circuits and systems, communications and materials, and mechanical engineering. The book is a collection of original papers that have been reviewed by technical editors. These papers were presented at the International Conference on Intelligent Technologies and Engineering Systems held Dec 13-15, 2012. **Advanced Machine Learning Technologies and Applications** Aboul Ella Hassanien, Mohamed Tolba, Ahmad Taher Azar, 2014-11-04 This book

constitutes the refereed proceedings of the Second International Conference on Advanced Machine Learning Technologies and Applications AMLTA 2014 held in Cairo Egypt in November 2014 The 49 full papers presented were carefully reviewed and selected from 101 initial submissions The papers are organized in topical sections on machine learning in Arabic text recognition and assistive technology recommendation systems for cloud services machine learning in watermarking authentication and virtual machines features extraction and classification rough fuzzy sets and applications fuzzy multi criteria decision making Web based application and case based reasoning construction social networks and big data sets

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