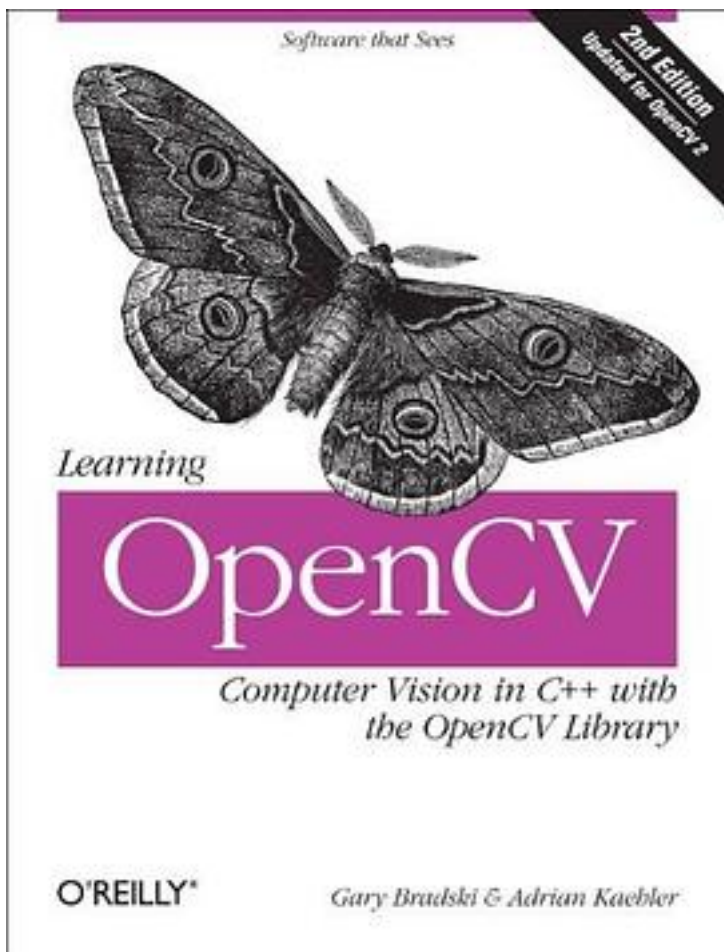


Learning OpenCV



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著者:Gary Bradski

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Learning OpenCV puts you in the middle of the rapidly expanding field of computer vision. Written by the creators of the free open source OpenCV library, this book introduces you to computer vision and demonstrates how you can quickly build

applications that enable computers to "see" and make decisions based on that data. The second edition is updated to cover new features and changes in OpenCV 2.0, especially the C++ interface. Computer vision is everywhere - in security systems, manufacturing inspection systems, medical image analysis, Unmanned Aerial Vehicles, and more. OpenCV provides an easy-to-use computer vision framework and a comprehensive library with more than 500 functions that can run vision code in real time. Whether you want to build simple or sophisticated vision applications, Learning OpenCV is the book any developer or hobbyist needs to get started, with the help of hands-on exercises in each chapter. This book includes: A thorough introduction to OpenCV Getting input from cameras Transforming images Segmenting images and shape matching Pattern recognition, including face detection Tracking and motion in 2 and 3 dimensions 3D reconstruction from stereo vision Machine learning algorithms

作者介绍:

Dr. Gary Rost Bradski is a consulting professor in the CS department at Stanford University AI Lab where he mentors robotics, machine learning and computer vision research. He is also Senior Scientist at Willow Garage <http://www.willowgarage.com>, a recently founded robotics research institute/incubator. He has a BS degree in EECS from U.C. Berkeley and a PhD from Boston University. He has 20 years of industrial experience applying machine learning and computer vision spanning option trading operations at First Union National Bank, to computer vision at Intel Research to machine learning in Intel Manufacturing and several startup companies in between. Gary started the Open Source Computer Vision Library (OpenCV <http://sourceforge.net/projects/opencvlibrary/>), the statistical Machine Learning Library (MLL comes with OpenCV), and the Probabilistic Network Library (PNL). OpenCV is used around the world in research, government and commercially. The vision libraries helped develop a notable part of the commercial Intel performance primitives library (IPP <http://tinyurl.com/36ua5s>). Gary also organized the vision team for Stanley, the Stanford robot that won the DARPA Grand Challenge autonomous race across the desert for a \$2M team prize and helped found the Stanford AI Robotics project at Stanford <http://www.cs.stanford.edu/group/stair/> working with Professor Andrew Ng. Gary has over 50 publications and 13 issued patents with 18 pending. He lives in Palo Alto with his wife and 3 daughters and bikes road or mountains as much as he can.

Dr. Adrian Kaehler is a senior scientist at Applied Minds Corporation. His current research includes topics in machine learning, statistical modeling, computer vision and robotics. Adrian received his Ph.D. in Theoretical Physics from Columbia university in 1998. Adrian has since held positions at Intel Corporation and the Stanford University AI Lab, and was a member of the winning Stanley race team in the DARPA Grand Challenge. He has a variety of published papers and patents in physics, electrical engineering, computer science, and robotics.

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呵呵，出新版了呀

有opencv自带说明的就看说吧

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书评

本书充满了丰富的应用OpenCV编程的例子，对于OpenCV库函数的介绍也大多是通过例子的方式完成的。可以说，这样厚厚的一本书，对于OpenCV 1.0中的几乎所有的库函数均有所涉及。我认为，与传统的手册型Manual具有不同的风

格，该书更像是一个OpenCV的工作人员在叙说整个OpenCV的方...

Opencv数字图像处理交流群：168464432，欢迎大家入群交流学习，共同进步，在群里大家可以探讨有关数字图像处理，机器视觉领域的前沿和技术问题，一起努力提高。

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作者从与Sebastian Thrun研发Stanley以及与Andrew Ng研究Stair开始。
这本书的内容有点过时，不过对于了解opencv的起源和基本架构还是很有帮助的。
IPP库的应用，说明起初的opencv更加偏向底层
在所有资料里，这本书对于图像处理基本算法的分析解释应该是最简明最清楚的 p273

...

这本《学习OpenCV》是O' Reilly出品于2008年，旋即由刘瑞祯和于仕琪在国内翻译出版。

相比国人介绍函数使用方法的书，《学习OpenCV》的着眼点则更多的回到图形图像，配合专业基础的脉络来介绍OpenCV。作为基础教程，那类似于Hello World是一定要的，而一本书的好坏，从Hello...

说实话 国内外目前比较好的
值得深入一读的书籍不多，此书值得深入读下去，不仅涉及到我所研究的图像图形，还有视频类的处理。opencv里很多代码都是基于C的，比较好懂，而且图像视频从感官上来说是一个容易吸引人的领域，从学术角度讲，有理论有理论，有实践有实践，是标准的工...

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和ARM LINUX 结合起来就比较纠结了。
第一次接触图像处理，一个开源跨平台的函数库。
做完这个项目估计就不会再接触了，书还是挺经典的。
美式的教学和书籍编写风格，显得不那么枯燥。

函数形式很简单，结合具体事例的时候会比较纠结，特别是在ARM虚拟机下的摄像头图像采集， ...

OpenCV (Open source Computer Vision library, 开放计算机视觉库) 由Intel发起，采用C/C++编写，追求性能优化，跨平台，帮助新生从一个高的起点开始视觉研究，避免闭门造车。
在CentOS-2.6.32中安装OpenCV-2.2.0步骤：
(1)安装相关依赖工程 (本人只装了yasm、ffmpeg、 ...

Description Learning OpenCV puts you right in the middle of the rapidly expanding field of computer vision. Written by the creators of OpenCV, the widely used free open-source library, this book introduces you to computer vision and demonstrates how you can...

"Because we are nice people and like our code to be readable and easy to understand, we adopt the convention of adding a leading g_ to any global variable." Funny as it goes, the book is a practical & followable handbook for first opencv learners. Beside...

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