

# 机器视觉全球顶级实验室

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前序

机器视觉和图像处理的研究工作，做到以下两点非常重要：

- 1、把握国际最前沿的内容
- 2、所做的工作具备很高的实用性

上述两点的解决方法分别为：找到这个方向公认成就最高的几个超级专家；找到实际应用的项目，边做边写文章

做好这几点的途径之一就是利用网络资源，利用权威网站和专家们的个人主页；

以下大家收集了 [机器视觉](#) 和 [图像处理](#) 领域的核心材料。

依照下面目录整理：

研究群体(国际国内)

专家主页

前沿国际国内期刊与会议

搜索资源

GPL 软件资源

## 【1】研究群体

用来搜索国际知名计算机视觉 [研究](#) 组(CV Groups):

国际计算机视觉研究组清单

<http://peipa.essex.ac.uk/info/groups.html>

美国计算机视觉研究组清单

<http://peipa.essex.ac.uk/info/groups.html#USA>

这是卡奈基梅隆大学的计算机视觉研究组的主页，上面提供很全的资料，从发表文章的下载到演示程序、测试图像、常用链接、相关软硬件，甚至还有一个搜索引擎。著名的有人物 Tomasi, Kanade 等。

<http://www-2.cs.cmu.edu/~cil/vision.html>

或 <http://www.cs.cmu.edu/~cil/vision.html>

卡内基梅隆大学双目实验室

<http://vision.middlebury.edu/stereo/>

卡内基梅隆研究组

<http://www.cs.cmu.edu/~cil/v-groups.html>

还有几个实验室：

Calibrated Imaging Laboratory 图像

Digital Mapping Laboratory 映射

Interactive Systems Laboratory 互动

Vision and Autonomous Systems Center 视觉自适应

Cornell University—Robotics and Vision group

康奈尔大学的计算机视觉和图像分析 [研究](#) 组，好像是电子和计算机工程系的。侧重医学方面的研究，但是在上面有相当不错资源，关键是它正在建设中，能够跟踪一些信息。

<http://www.via.cornell.edu/>

斯坦福大学计算机系

The Stanford AI Lab (SAIL) is the intellectual home for researchers in the Stanford Computer Science Department whose primary research focus is Artificial Intelligence. The lab is located in the Gates...

<http://www-cs-students.stanford.edu/>

1. <http://white.stanford.edu/>

2. <http://vision.stanford.edu/>

美国斯坦福大学人工智能机器人实验室

3. <http://ai.stanford.edu/>

Vision and Imaging Science and Technology

<http://www.fmrib.ox.ac.uk/analysis/>

密歇根州立大学计算机和电子工程系的模式识别-- [图像处理](#) 研究组，它的FTP上有许多的文章(NEW)

主要 [研究](#)：Brain Extraction Tool, Nonlinear noise reduction, Linear Image Registration, Automated Segmentation, Structural brain change analysis, motion correction, etc.

<http://www.cse.msu.edu/prip/> —

美国密歇根州大学认知模型和图像处理实验室

The Pattern Recognition and Image Processing (PRIP) Lab faculty and students investigate the use of machines to recognize patterns or objects. Methods are developed to sense objects, to discover which...

<http://www.cse.msu.edu/rgroups/prip/>

德国的一个数字 [图像处理](#) 研究小组，在其上面能找到一些不错的链接资源。

<http://pandora.inf.uni-jena.de/p/e/index.html>

柏林大学

<http://www.cv.tu-berlin.de/>

德国波恩大学视觉和认识模型小组

Computer Vision Group located within the Division III of the Computer Science Department in the University of Bonn in Germany. This server offers information on topics concerning our computer vision

<http://www-dbv.informatik.uni-bonn.de/>

<http://www-staff.it.uts.edu.au/~sean/CVCC.dir/home.html>

CVIP(used to be CVCC for Computer Vision and Cluster Computing) is a research group focusing on cluster-based computer vision within the Spiral Architecture.

<http://cfia.gmu.edu/>

The mission of the Center for Image Analysis is to foster multi-disciplinary research in image, multimedia and related technologies by establishing links between academic institutes, industry and government agencies, and to transfer key technologies to help industry build next generation commercial and military imaging and multimedia systems.

英国的Bristol大学的Digital Media Group在高级图形图像方面不错。主要就是涉及到场景中光线计算的问题，比如用全局光照或是各种局部光照对高动态图的处理，还有近似真实的模拟现实环境(照片级别的)，还有用几张照片来建立3D模型(人头之类的)。另外也有对古代建筑模型复原。

<http://www.cs.bristol.ac.uk/Research/Digitalmedia/>

而且根据Times全英计算机排名在第3，也算比较顶尖的 [研究](#) 了

<http://www.cmis.csiro.au/IAP/zimage.htm>

这是一个侧重图像分析的站点，一般。但是提供一个Image Analysis环境---ZIMAGE and SZIMAGE。

麻省理工视觉实验室

MIT <http://groups.csail.mit.edu/vision/welcome/>

AI Laboratory Computer Vision group

Center for Biological and Computational Learning

Media Laboratory, Vision and Modeling Group

Perceptual Science group

UC Berkeley

<http://o-vision.berkeley.edu.ilstest.lib.neu.edu/vsp/index.html>

[http://www.cs.berkeley.edu/ilste...n/vision\\_group.html](http://www.cs.berkeley.edu/ilste...n/vision_group.html)

加州大学伯克利分校视觉实验室David A. Forsyth:

<http://www.cs.berkeley.edu/~daf/>

UCLA(加州大学洛杉矶分校)视觉实验室

<http://vision.ucla.edu>

英国牛津的A.Zisserman: 机器人实验室

<http://www.robots.ox.ac.uk/~az/>

美国南加州大学智能机器人和智能系统 研究所 University of Southern California, Los Angeles

IRIS is an interdepartmental unit of USC's School of Engineering with ties to USC's Information Sciences Institute (ISI). Members include faculty, graduate students, and research staff associated with...

<http://iris.usc.edu/ComputerVision>

美国南加州大学计算机视觉实验室介绍:

Computer Vision Laboratory at the University of Southern California is one of the major centers of computer vision research for thirty years. they conduct research in a number of basic and applied are...

<http://iris.usc.edu/USC-Computer-Vision.html>

英国约克大学高级计算机结构神经网络小组

The Advanced Computer Architecture Group has had a thriving research programme in neural networks for over 10 years. The 15 researchers, led by Jim Austin, focus their work in the theory and applicati...

<http://www.cs.york.ac.uk/arch/neural/>

瑞士戴尔莫尔感知人工智能 研究所

IDIAP is a research institute established in Martigny in the Swiss Alps since 1991. Active in the areas of multimodal interaction and multimedia information management, the institute is also the leade...

<http://www.idiap.ch/>

英国萨里大学视觉, 语言和信号处理中心

The Centre for Vision, Speech and Signal Processing (CVSSP) is more than 60 members strong, comprising 12 academic staff, 18 research fellows and more than 44 research students. The activities of the ...

<http://www.ee.surrey.ac.uk/Research/VSSP/>

美国阿默斯特马萨诸塞州立大学计算机视觉实验室

The Computer Vision Laboratory was established in the Computer Science Department at the University of Massachusetts in 1974 with the goal of investigating the scientific principles underlying the con...

<http://vis-www.cs.umass.edu>

University of Massachusetts—Computer Vision Laboratory for Perceptual Robotics

美国芝加哥伊利诺伊斯大学贝克曼 研究中心智能机器人和计算机视觉实验室

Includes the following groups: Professor Seth Hutchinson's Research Group Professor David Kriegman's Research Group Professor Jean Ponce's Research Group Professor Narendra Ahuja's Research Gro...

<http://www-cvr.ai.uiuc.edu/>

Computer Vision and Robotics Laboratory

Vision Interfaces and Systems Laboratory (VISLab)

英国伯明翰大学计算机科学学校视觉研究小组

The vision group at the School of Computer Science (a RAE 5 rated department) performs research into a wide variety of computer vision and image understanding areas. Much of this work is performed in ...

<http://www.cs.bham.ac.uk/research/vision/>

微软 研究院机器学习与理解研究小组 / 计算机视觉小组

The research group focuses on the development of more advanced and intelligent computer systems through the exploitation of statistical methods in machine learning and computer vision. The site lists ...

<http://research.microsoft.com/mlp/>

<http://research.microsoft.com/en-us/groups/vision/>

微软公司的文献:

<http://research.microsoft.com/research/pubs>

微软亚洲研究院:

<http://research.microsoft.com/asia/>

值得关注Harry Shum, Jian Sun, Steven Lin, Long Quan(兼职HKUST)etc.感觉国外搞视觉的好多是数学系出身, 大约做计算机视觉对数学要求很高吧。

瑞典隆德大学数学系视觉组:

<http://www.maths.lth.se/matematiklth/personal/andersp/>

澳大利亚国立大学:

<http://users.rsise.anu.edu.au/~hartley/>

美国北卡大学:

<http://www.cs.unc.edu/~marc/>

法国INRIA: 由Olivier.Faugeras领衔的牛人众多。

<http://www-sop.inria.fr/odyssee/team/>

比利时鲁汶大学的L.Van Gool:

[www.esat.kuleuven.ac.be/psi/visics/](http://www.esat.kuleuven.ac.be/psi/visics/)

据说在这个只有中国一个小镇大小的地方的鲁汶大学在欧洲排行top10, 名列世界top100, 还出了几个诺贝尔奖, 视觉研究也很强。

美国明德

<http://vision.middlebury.edu/stereo/>

以下含有非顶尖美国学校 研究 组, 没有链接(个别的上面已经提到), 供参考。

Amerinex Applied Imaging, Inc.Boston University

Image and Video Computing Research group,

University of California at Santa Barbara加州大学芭芭拉分校

Vision Research Lab

University of California at San Diego加州大学圣迭戈分校

Computer Vision & Robotics Research Laboratory

Visual Computing laboratory

University of California at Irvine加州大学欧文分校, 加州南部一城, 在圣安娜东南,

Computer Vision laboratory

University of California, Riverside加州大学河滨分校

Visualization and Intelligent Systems Laboratory (VISLab)

University of California at Santa Cruz

Perceptual Science Laboratory

Caltech (加州理工)

Vision group

University of Central Florida

Computer Vision laboratory

University of Florida

Center for Computer Vision and Visualization

Colorado State University

Computer Vision group

Columbia University

Automated Vision Environment (CAVE)

Robotics group

University of Georgia, Athens

Visual and Parallel Computing Laboratory

Harvard University (哈佛)

Robotics Laboratory

University of Illinois at Urbana-Champaign

Robotics and Computer Vision

University of Iowa

Division of Physiologic Imaging

Jet Propulsion Laboratory

Machine Vision and Tracking Sensors group

Khoral Research, Inc

Lawrence Berkeley Laboratories

Imaging and Collaborative Computing Group

Imaging and Distributed Computing

Lehigh University

Image Processing and Pattern Analysis Lab

Vision And Software Technology Laboratory

University of Louisville

Computer Vision and Image Processing Lab

University of Maryland

Computer Vision Laboratory

University of Miami

Underwater Vision and Imaging Laboratory

University of Michigan密歇根

AI Laboratory

Michigan State University 密歇根州立

Pattern Recognition and Image Processing laboratory

Environmental Research Institute of Michigan (ERIM) 密歇根大学有汽车车身检测 [研究](#)

University of Missouri-Columbia

Computational Intelligence Research Laboratory

NEC

Computer Vision and Image Processing

University of Nevada

Computer Vision Laboratory

Notre-Dame University

Vision-Based Robotics using Estimation

Ohio State University

Signal Analysis and Machine Perception Laboratory

University of Pennsylvania

GRASP laboratory

Medical Image Processing group

Vision Analysis and Simulation Technologies (VAST) Laboratory

Penn State University 宾夕法尼亚大学

Computer Vision

Precision Digital Images

Purdue University 普渡大学

Robot Vision laboratory

Video and Image Processing Laboratory (VIPER)

Rensselaer Polytechnic Institute (RPI)

Computer Science Vision

University of Rochester

Center for Electronic Imaging Systems

Vision and Robotics laboratory

Rutgers University (The State University of New Jersey)

Image Understanding Lab

University of Southern California

Computer Vision

University of South Florida

Image Analysis Research group

Stanford Research Institute Inter [national](#) (SRI)

RADIUS -- Research and Development for Image Understanding Systems

The Perception program at SRI's AI Center

SUNY at Stony Brook

Computer Vision Lab

University of Tennessee

Imaging, Robotics and Intelligent Systems laboratory

University of Texas, Austin

Laboratory for Vision Systems

University of Utah  
Center for Scientific Computing and Imaging  
Robotics and Computer Vision  
University of Virginia  
Computer Vision Research (CS)  
University of Washington  
Image Computing Systems Laboratory  
Information Processing Laboratory  
CVIA Laboratory  
University of West Florida  
Image Analysis/Robotics Research Laboratory  
University of Wisconsin  
Computer Vision group  
Vanderbilt University  
Center for Intelligent Systems  
Washington State University  
Imaging Research laboratory  
Wright-Patterson  
Model-Based Vision laboratory  
Wright State University  
Intelligent Systems Laboratory  
University of Wyoming  
Wyoming Image and Signal Processing Research (WISPR)  
Yale University  
Computational Vision Group <http://www.cs.yale.edu/>  
School of Medicine, Image Processing and Analysis group

国内:

中科院模式识别国家重点实验室

<http://www.nlpr.ia.ac.cn/English/rv/mainpage.html>

虹膜识别、掌纹识别、人脸识别、

莲花山 <http://www.stat.ucla.edu/~sczhu/Lotus/>

天津大学精密测试技术及仪器国家重点实验室

研究方向包括: 激光及光电测试技术、传感及测量信息技术、微纳测试与制造技术、制造质量控制技术。该实验室是国内精密测试领域唯一的国家重点实验室。

“智能微系统及其集成应用技术”、“微结构光学测试技术”、“油气储运安全检测技术”、“先进制造中的视觉测量及其关键技术”、“正交偏振激光器原理、特性及其在精密计量中的应用研究”等5项代表性成果(07.3)。

中科院长春光机所

<http://www.ciomp.ac.cn/ny/keyan.asp>

中科院沈阳自动化所

<http://www.sia.ac.cn/index.php>

中科院西安光机所

<http://www.opt.ac.cn/yanjiushi/gpcxjs1.htm>

北京大学智能科学系：三维视觉计算与机器人，生物特征识别与图像识别

<http://www.cis.pku.edu.cn/vision/vision.htm>

## 【2】专家网页

这位可是MIT人工智能实验室的BILL FREEMAN。专长是：理解--贝叶斯模型。

<http://www.ai.mit.edu/people/wtf/>

MERL(Mitsubishi Electric Research Laboratory)中的擅长“Style Machine”。

<http://www.merl.com/people/brand/>

CV界极有声望的A.Blake 1977年毕业于剑桥大学三一学院并获数学与电子科学学士学位。之后在MIT, Edinburgh, Oxford先后组建过 研究 小组并成为Oxford的教授，直到1999年进入微软剑桥研究中心。主要工作领域是计算机视觉。

<http://research.microsoft.com/~ablake/>

这位专家好像正在学习汉语，主页并且搜集了诸如“两只老虎(Two Tigers)”的歌曲。

他的主页上面还有几个专家：Shumeet Baluja, Takeo Kanade。他们的Face Detection作的绝对是世界一流。毕业于卡奈基梅隆大学的计算机科学系，兴趣是计算机视觉。

<http://www-2.cs.cmu.edu/afs/cs.cmu.edu/user/har/Web/home.html>

## 【3】前沿国际国内期刊与会议

这里的期刊大部分都可以通过上面的专家们的主页间接找到

1.国际会议 2.国际期刊 3.国内期刊 4.神经网络 5.CV 6.数字图象 7.教育资源，大学 8.常见问题国际会议

1.国际会议

现在，国际上计算机视觉方面的三大国际会议是ICCV, CVPR和ECCV, 统称之为ICE。

ICCV的全称是International Conference on Computer Vision。ICCV两年一次，与ECCV正好错开，是公认的三个会议中级别最高的。

ECCV的全称是European Conference on Computer Vision，是一个欧洲的会议。

CVPR的全称是International Conference on Computer Vision and Pattern Recognition国际计算机视觉与模式识别会议。这是一个一年一次的会议，举办地在美国。

ICIP—

BMVC—

MVA—

国际模式识别会议(ICPR):

亚洲计算机视觉会议(ACCV):

2.国际期刊

以计算机视觉为主要内容之一的国际刊物也有很多，如:

Inter [national](#) Journal of Computer Vision

IEEE Trans. On PAMI

<http://www.computer.org/tpami/index.htm>

IEEE Transactionson Image Processing

<http://www.ieee.org/organizations/pubs/transactions/tip.htm>

Pattern Recognition

<http://www.elsevier.com/locate/issn/00313203>

Pattern Recognition Letters

<http://www.elsevier.com/locate/issn/01678655>

IEEE Trans. on Robotics and Automation,



IEEE TPAMI

IEEE TIP

CVGIP Computer Vision, Graphics and Image Processing,

Visual Image Computing,

IJPRAI(International Journal of Pattern Recognition and Artificial Intelligence)

众所周知, computer vision(cv) 存在ICCV/CVPR/ECCV三个顶级会议, 它们档次差不多, 都应该在一流会议行列, 没有必要给个高下。有些us的人认为ICCV/CVPR略好于ECCV, 而欧洲人大都认为ICCV/ECCV略好于CVPR, 某些英国的人甚至认为BMVC好于CVPR。简言之, 三个会议差不多, 各有侧重和偏好。

笔者就个人经验浅谈三会同, 以供大家参考和讨论。三者乃cv领域的旗舰和风向标, 其oral paper (包括best paper) 代表当年度cv的最高水准, 在此引用Harry Shum的一句话, 想知道某个领域在做些什么, 找最近几年此领域的proceeding看看就知道了。ICCV/CVPR由IEEE Computer Society牵头组织, ECCV好像没有专门负责的组织。CVPR每年(除2002年)都在美国开, ECCV每两年开一次, 仅限欧洲, ICCV也是每两年一次, 各洲轮值。基本可以保证每年有两个会议开, 这样 研究 者就有两次跻身牛会的机会。

就录取率而言, 三会都有波动。如ICCV2001录取率>30%, 且出现两个人(华人)各有三篇第一作者的paper的情况, 这在顶级牛会是不常见的(灌水嫌疑)。但是, ICCV2003, 2005两次录取率都很低, 大约20%左右。ECCV也是类似规律, 在2004年以前都是>30%, 2006年降低到20%左右。CVPR的录取率近年来一直偏高, 从2004年开始一直都在。最近一次CVPR2006是28.1%, CVPR2007还不知道统计数据。笔者猜测为了维持录取paper的绝对数量, 当submission少的时候录取率偏高, 反之偏低, 近几年三大会议的投稿数量全部超过1000, 相对2000年前, 三会录取率均大幅度降低, 最大幅度50%->20%。对录取率走势感兴趣的朋友, 可参考

[http://vrlab.epfl.ch/~ulicny/statistics/\(CVPR2004](http://vrlab.epfl.ch/~ulicny/statistics/(CVPR2004) 的数据是错的)。

[http://www.adaptivebox.net/research/bookmark/CICON\\_stat.html](http://www.adaptivebox.net/research/bookmark/CICON_stat.html)

显然, 投入cv的人越来越多, 这个领域也是越来越大, 这点颇不似machine learning一直奉行愚蠢的小圈子主义。另外

一点值得注意, ICCV/ECCV只收vision相关的topic, 而cvpr会收少量的pattern recognition paper, 如finger print等, 但是不收和image/video完全不占边的pr paper, 如speech recognition等。我一个朋友曾经review过一篇投往CVPR的speech的paper, 三个reviewer一致拒绝, 其中一个reviewer搞笑的指出, 你这篇paper应该是投ICASSP被拒而转投CVPR的。就topic而言, CVPR涵盖最广。还有一个没有验证过的原因导致CVPR录取率高: 很多us的researcher不愿意或没有足够的经费到us以外的地方开会, 故CVPR会优先接收很多来自us的paper (让大家都happy)。

以上对三会的分析对我们投paper是很有指导作用的。目前的research我想绝大部分还是纸上谈兵, 必经 read paper -> write paper -> publish paper -> publish paper on top conferences and journals流程。故了解投paper的一些基本技巧, 掌握领域的走向和热点, 是非常必要的。避免做无用功, 选择切合的topic, 改善presentation, 注意格式(遵守规定的模板), 我想这是很多新手需要注意的问题。如ICCV2007明文规定不写summary page直接reject, 但是仍然有人忽视, 这是相当不值得的。

### 3.国内期刊

自动化学报、计算机学报、软件学报、电子学报, 中国图象图形学报, 模式识别与人工智能, 光电子激光, 精密光学工程等。

### 4.神经网络

神经网络-Neural Networks Tutorial Review

<http://hem.hj.se/~de96klda/NeuralNetworks.htm>

<ftp://ftp.sas.com/pub/neural/FAQ.html>

Image Compression with Neural Networks

<http://www.comp.glam.ac.uk/digimaging/neural.htm>

Backpropagator's Review

<http://www.dontveter.com/bpr/bpr.html>

Bibliographies on Neural Networks

<http://liinwww.ira.uka.de/bibliography/Neural/>

Intelligent Motion Control with an Artificial Cerebellum

<http://www.q12.org/phd.html>

Kernel Machines

<http://www.kernel-machines.org/>

Some Neural Networks Research Organizations

<http://www.ieee.org/nnc/>

<http://www.inns.org/>

Neural Network Modeling in Vision Research

<http://www.rybak-et-al.net/nisms.html>

Neural Networks and Machine Learning

<http://learning.cs.toronto.edu/>

Neural Application Software

<http://atrasoft.com>

Neural Network Toolbox for MATLAB

<http://www.mathworks.com/products/neuralnet/>

Netlab Software

<http://www.ncrg.aston.ac.uk/netlab/>

Kunama Systems Limited

<http://www.kunama.co.uk/>

5. Computer Vision(计算机视觉)

Annotated Computer Vision Bibliography

<http://iris.usc.edu/Vision-Notes/bibliography/contents.html>

<http://iris.usc.edu/Vision-Notes/rosenfeld/contents.html>

Lawrence Berkeley National Lab Computer Vision and Robotics Applications

<http://www-itg.lbl.gov/ITG.hm.pg.docs/VISIon/vision.html>

CVonline by University of Edinburgh

The Evolving, Distributed, Non-Proprietary, On-Line Compendium of Computer Vision,

[www.dai.ed.ac.uk/CVonline](http://www.dai.ed.ac.uk/CVonline)

Computer Vision Handbook,

[www.cs.hmc.edu/~fleck/computer-vision-handbook](http://www.cs.hmc.edu/~fleck/computer-vision-handbook)

Vision Systems Courseware

[www.cs.cf.ac.uk/Dave/Vision\\_lecture/Vision\\_lecture\\_caller.html](http://www.cs.cf.ac.uk/Dave/Vision_lecture/Vision_lecture_caller.html)

Research Activities in Computer Vision

<http://www-syntim.inria.fr/syntim/analyse/index-eng.html>

Vision Systems Acronyms

[www.vision-systems-design.com/vsd/archive/acronyms.html](http://www.vision-systems-design.com/vsd/archive/acronyms.html)

Dictionary of Terms in Human and Animal Vision

<http://cns-web.bu.edu/pub/laliden/WWW/Visionary/Visionary.html>

Metrology based on Computer Vision

[www.cranfield.ac.uk/sme/amac/research/metrology/metrology.html](http://www.cranfield.ac.uk/sme/amac/research/metrology/metrology.html)

6. Digital Photography 数字图像

Digital Photography, Scanning, and Image Processing

[www.dbusch.com/scanners/scanners.htm](http://www.dbusch.com/scanners/scanners.htm)

7. Educational Resources, Universities 教育资源, 大学

Center for Image Processing in Education

[www.cipe.com](http://www.cipe.com)

Library of Congress Call Numbers Related to Imaging Science by Rochester Institute of Technology

<http://wally2.rit.edu/pubs/guides/imagingcall.html>

Mathematical Experiences through Image Processing, University of Washington

[www.cs.washington.edu/research/metip/metip.html](http://www.cs.washington.edu/research/metip/metip.html)

Vismod Tech Reports and Publications, MIT

[http://vismod.www.media.mit.edu/cgi-bin/tr\\_pagemaker](http://vismod.www.media.mit.edu/cgi-bin/tr_pagemaker)

Vision Lab PhD dissertation list, University of Antwerp

<http://wcc.ruca.ua.ac.be/~visielab/theses.html>

INRIA (France) Research Projects: Human-Computer Interaction, Image Processing, Data Management, Knowledge Systems

[www.inria.fr/Themes/Theme3-eng.html](http://www.inria.fr/Themes/Theme3-eng.html)

Image Processing Resources

<http://eleceng.ukc.ac.uk/~rls3/Contents.htm>

Publications of Carsten Steger

<http://www9.informatik.tu-muench...r/publications.html>

8. FAQs (常见问题)

comp.dsp FAQ

[www.bdti.com/faq/dsp\\_faq.htm](http://www.bdti.com/faq/dsp_faq.htm)

Robotics FAQ

[www.frc.ri.cmu.edu/robotics-faq](http://www.frc.ri.cmu.edu/robotics-faq)

Where's the sci.image.processing FAQ?

[www.cc.iastate.edu/olc\\_answers/p...processing.faq.html](http://www.cc.iastate.edu/olc_answers/p...processing.faq.html)

comp.graphics.algorithms FAQ, Section 3, 2D Image/Pixel Computations

[www.exaflop.org/docs/cgafaq](http://www.exaflop.org/docs/cgafaq)

Astronomical Image Processing System FAQ

[www.cv.nrao.edu/aips/aips\\_faq.html](http://www.cv.nrao.edu/aips/aips_faq.html)

#### 【4】搜索资源

<http://sal.kachinatech.com/>

北京大学:

<http://cheminfo.pku.edu.cn/mirrors/SAL/index.shtml>

Google输入:

computer vision 或 computer vision groups 可以获得很多结果

网络资源:

视觉 研究 组列表

CVonline <http://homepages.inf.ed.ac.uk/rbf/CVonline/>

卡内基梅隆标准图片库

Computer vision test Image <http://www.cs.cmu.edu/~cil/v-images.html>

视觉论文搜索: Paper search

<http://www.researchindex.com>

## 【5】图像处理GPL库

Cppima 是一个图像处理的C++函数库。这里有一个较全面介绍它的库函数的文档，当然你也可以下载压缩的GZIP包，里面包含TexInfo格式的文档。

<http://www.ph.tn.tudelft.nl/~klamer/cppima.html>

Welcome to the IRAF Homepage! IRAF is the Image Reduction and Analysis Facility, a general purpose software system for the reduction and analysis of astronomical data

<http://iraf.noao.edu/>

一个非常不错的Unix系统的 [图像处理](#) 工具，看看它的截图。你可以在此基础上构建自己的专用图像处理工具包。

<http://entropy.brni-jhu.org/tnimage.html>

这是GPL软件集散地，可以搜索IP库。

<http://sourceforge.net/projects/>