计算机视觉的会议与专家

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.三者乃cv领域的旗舰和风向标,其oralpaper (包括best paper) 代表当年度cv的最高水准, 在此引用HarryShum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 ComputerSociety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[25%,30%].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的数据是错的),

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 recognitionpaper, 如fingerprint等, 但是不收和image/video完全不占边的prpaper,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被据而转投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 andjournals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.paper毕竟是死的,写paper的人才是活的. 那么我现在研究一下cv圈的格局, 按师承关系,

借鉴前人, 我总结atree stucture of cv guys.

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| |  | | --- | | 1.cv圈的格局, 按师承关系,总结a tree stucture of cv guys.  David Marr ----->Shimon Ullman (Weizmann) ----->Eric Grimson (MIT)        ----->Daniel Huttenlocher (Cornell)        ----->Pedro Felzenszwalb (Chicago)  Thomas Binford (Stanford) ----->David Lowe (UBC) ----->Jitendra Malik (UC Berkeley)        ----->Pietro Perona (Caltech)               ----->Stefano Soatto (UCLA)               ----->Fei-Fei Li (Princeton)        ----->Jianbo Shi (UPenn)        ----->Yizhou Yu (UIUC)        ----->Christoph Bregler (NYU)        ----->Serge Belongie (UCSD)        ----->Alyosha Efros (CMU)  Andrew Blake (Microsoft Research Cambridge) ----->Andrew Zisserman (Oxford)        ----->Andrew Fitzgibbon (Microsoft Research Cambridge) ----->Roberto Cipolla (Cambridge) ----->Alan Yuille (UCLA) (UK这个学派的师承关系不太清楚, 这是我听说加上自己猜测的. 事实上, 几个 非常优秀的researcher如Vladimir Kolmogorov虽然不是Andrew Blake的学生, 但是 也属于这个学派. )  Thomas Huang (UIUC) ----->Yong Rui (Microsoft Research Redmond) ----->Nebojsa Jojic (Microsoft Research Redmond) ----->Ying Wu (Northwestern University) ----->Hai Tao (UCSC) ----->Yuncai Liu (SJTU) (Huang这个系的人太多, 而且很怪的是, UIUC的web上信息不全, 在此仅列出我知道的.)  此外, 还有Takeo Kanade等非常有名的大牛, 囿于篇幅, 不一一列举. 从上得知, 加州派 基本占了cv的半壁江山.    Olivier Faugeras    ----Ponce  UIUC        ---lazebnik    ----Zhengyou Zhang    MSR     ----Martial Hebert  CMU  Mit AI lab    poggio         ---Oliva         ---serre     Freeman 80年代还来太原理工扶贫了        ---Y. Weiss         ----- Levin        ---Antonio Torralba （research scientist）     Trevor Darrell        ---Grauman 补充一下     Zisserman还有一个不错的学生 lifeifei的合作者Rob Fergus    MIT的Brain & Cognitive Science Dept和CSAIL里面聚集了一帮人，有的作low level有的作mid level to high level的。他们的工作是值得关注的。  当然说视觉还是要从伟大的David Marr开始。Tomaso Poggio, Richard Whitman是Marr的同事，传承了其理念，一直往下走。Poggio最近几年比较重点的工作放在他那个hierarchical model上。  T. Poggio的第一个PhD学生是Christof Koch （kLab at Caltech）。哦，顺便说一下Koch的另外一个导师是Valentino Breitenberg——同样是影响了一个时代的大人物。Koch研究重点兴趣在consciousness上，在Nature上的很多文章体现了他的研究思想。不过他们也做不少初级的视觉问题，诸如attention。 Koch比较知名的弟子比如Laurent Itti和Li Feifei。  Richard Whitman 年纪比较大了，个人不是很关注他现在做的东西。不过他所在的Perceptual Science Group，是一个非常有影响力的地方，这个组其他大家比较熟悉的老师有Aude Oliva和EH Adelson。Adelson最著名的一个事儿是色彩恒常相关的视错觉，93年发在Science上的那篇。  关于Oliva，前面的帖子错了，她不是Poggio的学生，这家伙和Torralba是老乡，同在法国念书，主要从心理学那条路子开始做，成名之役是hybrid image，和Antonio Torrralba一起搞的。这个Hybrid Image 其实80年代就有了，但是最开始从心理学方向上探讨，没有非常有影响力的文章。后来开始靠谱作自然图像统计，得到Gist theory，当然这个illusion本身后来转投SIGGRAPH，其影响是深远的。嗯，这个和CV关系不大。 Perceptual Science Group出了不少牛人，他们的alumni list可谓超豪华阵容：Yair Weiss, Josh Tenenbaum, Pawan Sinha, Bill Freeman……    2.最近几年, 特别活跃的cv guys  USA Jitendra Malik, UC Berkeley Pietro Perona, Caltech Serge Belongie, UCSD加利福尼亚大学圣迭戈分校 Jianbo Shi, UPenn Stefano Soatto, UCLA Fei-Fei Li, Princeton William Freeman, MIT Trevor Darrell, MIT Simon Baker, CMU Yanxi Liu, CMU Songchun Zhu, UCLA Alan Yuille, UCLA Yi Ma, UIUC Michael Black, Brown Carlo Tomasi, Duke Ramin Zabih, Cornell Shree Nayar, Columbia Rama Chellappa, Maryland Steve Seitz, University of Washington  （UC Berkeley,Caltech,UCSD,UPenn,MIT,CMU,UCLA,UIUC,Brown,Duke,Cornell,Coiumbia,Marryland,Washington） 朱松纯 （Song-Chun Zhu）  <http://www.stat.ucla.edu/~sczhu/>  Europe Andrew Zisserman, Oxford, UK Andrew Fitzgibbon, Microsoft Research Cambridge, UK Roberto Cipolla, Cambridge, UK Jean Ponce, INRIA, France Cordelia Schmid, INRIA, France Bill Triggs, LEAR, France Yair Weiss, Hebrew University, Israel Anat Levin, Hebrew University, Israel Michal Irani, Weizmann, Israel Luc van Gool, University of Leuven/ETH Zurich, Czechic  China Harry Shum, MSRA Xiaoou Tang, MSRA/CUHK Jian Sun, MSRA Steve Lin, MSRA Yasuyuki Matsushita, MSRA Zhouchen Lin, MSRA Long Quan, HKUST Chi-Keung Tang, HKUST    3.按研究方向划分  按研究方向划分， 应该更合理一些。现在计算机视觉， 计算机图形图像， 机器学习开始融合到一起了吧。  J. Malik，Zhu Songchu偏segmentation; D. Lowe, S. Ullman, Poggio 偏于从生物视觉的启发来研究视觉； Zisserman, Schmid, Lowe研究局部特征； Luc Van Goo， Long Quanl三维重建； Perona, Li Feife， Freeman视觉i学习， 物体分类； 还有运动分析， 视觉跟踪，纹理分析............. | |

美国计算机领域大牛教授排行，点击可以看到他们的个人网页、介绍以及联系方式等，方便大家搜索。申请美国计算机专业的申请人很多，希望以下文章能方便大家搜索，给大家提供帮助。

　　一大堆fellow和拿了图灵奖的，但做网络方向不多，只知道 [David Culler](http://www.cs.berkeley.edu/~culler/) 和 [Leslie Lamport](http://research.microsoft.com/users/lamport/) 。这里面华人还是很多的。In [this paper](http://www.cs.ucla.edu/hirsch05.pdf), [J. E. Hirsch](http://physics.ucsd.edu/~jorge/jh.html), Dept of Physics, UCSD, proposes "the index h, defined as the number of papers with citation number higher or equal to h, as a useful index to characterize the scientific output of a researcher."  
Here is a partial list of computer science researchers who each has an h index of 40 or higher according to [Google Scholar](http://scholar.google.com/advanced_scholar_search?hl=en&lr=). Several websites provide easy-to-use interfaces for computing an h index, including [scHolar index](http://www-ihm.lri.fr/~roussel/moulinette/h/h.cgi" \t "_blank) and [Harzing's publish and perish](http://www.harzing.com/resources.htm" \l "/pop.htm" \t "_blank). Send comments, corrections, and new entries to [Jens Palsberg](http://www.cs.ucla.edu/~palsberg)(UCLA). I do maintain the list: mostly, I add people and update numbers upon request and when I happen to notice a high h index. Most of the numbers on this page are the results of counting efforts by the listed people themselves. I have computed some of the numbers myself by comparing output from [Google Scholar](http://scholar.google.com/advanced_scholar_search?hl=en&lr=) with other listings of research papers, such as from personal webpages or [DBLP](http://www.informatik.uni-trier.de/~ley/db/index.html).  
92 [Terrence Sejnowski](http://www.salk.edu/faculty/sejnowski.html) (UCSD), IEEE Fellow, Member of the Institute of Medicine  
89 [Hector Garcia-Molina](http://www-db.stanford.edu/people/hector.html) (Stanford), ACM Fellow, Member of the National Academy of Engineering  
87 [Jeffrey D. Ullman](http://www-db.stanford.edu/~ullman/) (Stanford), ACM Fellow, Member of the National Academy of Engineering  
82 [Robert Tarjan](http://www.cs.princeton.edu/~ret/) (Princeton), Turing Award, ACM Fellow, Member of the National Academy of Engineering  
80 [Deborah Estrin](http://research.cens.ucla.edu/portal/page?_pageid=54,65678,54_65679&_dad=portal&_schema=PORTAL) (UCLA), ACM Fellow, IEEE Fellow, Member of the National Academy of Engineering  
79 [Christos H. Papadimitriou](http://www.cs.berkeley.edu/~christos/) (Berkeley), ACM Fellow, Member of the National Academy of Engineering  
77 [Don Towsley](http://www-net.cs.umass.edu/personnel/towsley.html) (U Mass, Amherst), ACM Fellow, IEEE Fellow  
73 [Ian Foster](http://www-fp.mcs.anl.gov/~foster) (Argonne National Laboratory & U Chicago)  
71 [Scott Shenker](http://www.icsi.berkeley.edu/Board/shenkerbio.html) (Berkeley), ACM Fellow, IEEE Fellow  
70 [David Culler](http://www.cs.berkeley.edu/~culler/) (Berkeley), ACM Fellow, Member of the National Academy of Engineering  
70 [David Haussler](http://www.cbse.ucsc.edu/staff/haussler.shtml) (UC Santa Cruz)  
69 [Nick Jennings](http://www.ecs.soton.ac.uk/~nrj/) (U Southampton), Fellow of the Royal Academy of Engineering  
68 [Michael I. Jordan](http://www.cs.berkeley.edu/~jordan) (Berkeley), AAAS Fellow, IEEE Fellow, AAAI Fellow  
68 [Takeo Kanade](http://www.ri.cmu.edu/people/kanade_takeo.html) (CMU), ACM Fellow, IEEE Fellow, Member of the National Academy of Engineering  
64 [Demetri Terzopoulos](http://www.cs.ucla.edu/~dt/" \t "_blank) (UCLA), ACM Fellow, IEEE Fellow, Member of the European Academy of Sciences  
64 [Martin Vetterli](http://lcavwww.epfl.ch/~vetterli) (EPFL), IEEE Fellow  
63 [Marco Dorigo](http://iridia.ulb.ac.be/~mdorigo/HomePageDorigo) (U Libre de Bruxelles)  
62 [Alon Halevy [Alon Levy]](http://alonhalevy.googlepages.com/" \t "_blank) (Google), ACM Fellow  
61 [Mario Gerla](http://www.cs.ucla.edu/csd/people/faculty_pages/gerla.html) (UCLA), IEEE Fellow  
58 [Luca Cardelli](http://www.luca.demon.co.uk/) (Microsoft), ACM Fellow  
58 [Ronald Fagin](http://www.almaden.ibm.com/cs/people/fagin) (IBM Almaden), ACM Fellow, IEEE Fellow, AAAS Fellow, ACM SIGMOD Edgar F. Codd Innovations Award  
58 [Anil K. Jain](http://www.cse.msu.edu/~jain/) (Michigan State U), ACM Fellow, IEEE Fellow  
58 [Amit Sheth](http://knoesis.wright.edu/amit" \t "_blank) (Wright State U), IEEE Fellow  
57 [Martin Abadi](http://www.cse.ucsc.edu/~abadi/home.html) (UC Santa Cruz and Microsoft), ACM Fellow  
57 [Mihir Bellare](http://www-cse.ucsd.edu/users/mihir/" \t "_blank) (UCSD)  
57 [Sushil Jajodia](http://csis.gmu.edu/faculty/jajodia.html" \t "_blank) (George Mason U)  
57 [Leslie Lamport](http://research.microsoft.com/users/lamport/) (Microsoft), Member of the National Academy of Engineering  
56 [David Dill](http://chicory.stanford.edu/dill/) (Stanford), ACM Fellow, IEEE Fellow  
56 [Randy H. Katz](http://bnrg.eecs.berkeley.edu/~randy/) (Berkeley), ACM Fellow, IEEE Fellow, Member of the National Academy of Engineering  
56 [Steven Salzberg](http://cbcb.umd.edu/~salzberg) (U Maryland)  
56 [HongJiang Zhang](http://research.microsoft.com/~hjzhang" \t "_blank) (Microsoft), ACM Fellow, IEEE Fellow

55 [Jennifer Widom](http://www-db.stanford.edu/~widom/) (Stanford), ACM Fellow, Member of the National Academy of Engineering  
54 [Jack Dongarra](http://www.netlib.org/utk/people/JackDongarra/) (U Tennessee), ACM Fellow, IEEE Fellow, Member of the National Academy of Engineering  
54 [David E. Goldberg](http://www-illigal.ge.uiuc.edu/goldberg/d-goldberg.html) (UIUC)  
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54 [Amir Pnueli](http://www.wisdom.weizmann.ac.il/~amir/) (Weizmann and New York University), Turing Award, ACM Fellow, Member of the National Academy of Engineering  
54 [Herbert A. Simon](http://nobelprize.org/economics/laureates/1978/simon-autobio.html) (CMU), Turing Award, ACM Fellow, Nobel Laureate  
54 [Jeffrey Vitter](http://www.tamu.edu/provost) (Texas A&M), ACM Fellow, IEEE Fellow  
54 [Philip S. Yu](http://www.cs.uic.edu/~psyu) (UIC), ACM Fellow, IEEE Fellow  
53 [Tim Finin](http://umbc.edu/~finin) (UMBC)  
53 [Sally Floyd](http://www.icir.org/floyd/) (ICSI), ACM Fellow  
53 [Tomaso Poggio](http://cbcl.mit.edu/people/poggio/poggio-cv-web.htm" \t "_blank) (MIT)  
53 [Eduardo Sontag](http://www.math.rutgers.edu/~sontag/index.html) (Rutgers), IEEE Fellow  
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52 [Stanley Osher](http://www.math.ucla.edu/~sjo) (UCLA), Member of the National Academy of Sciences  
51 [Jiawei Han](http://www-sal.cs.uiuc.edu/~hanj/" \t "_blank) (UIUC), ACM Fellow  
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51 [Alex Pentland](http://web.media.mit.edu/~sandy/) (MIT)  
50 [Andrew B. Kahng](http://vlsicad.ucsd.edu/~abk) (UCSD)  
50 [Alberto Sangiovanni-Vincentelli](http://www.eecs.berkeley.edu/~alberto/) (Berkeley), Member of the National Academy of Engineering  
50 [Lixia Zhang](http://www.cs.ucla.edu/csd/people/faculty_pages/lixia.html" \t "_blank) (UCLA), ACM Fellow  
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49 [Maurizio Lenzerini](http://www.dis.uniroma1.it/~lenzerini) (Sapienza Universita di Roma)  
49 [John McCarthy](http://www-formal.stanford.edu/jmc/) (Stanford), Turing Award, Member of the National Academy of Engineering  
49 [Michael Stonebraker](http://www.csail.mit.edu/biographies/PI/bioprint.php?PeopleID=883) (MIT), ACM Fellow, Member of the National Academy of Engineering  
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47 [Wil van der Aalst](http://wwwis.win.tue.nl/~wvdaalst" \t "_blank) (TU Eindhoven)  
47 [Leonard Kleinrock](http://www.lk.cs.ucla.edu/) (UCLA), ACM Fellow, IEEE Fellow, Member of the National Academy of Engineering  
47 [Jim Kurose](http://www-net.cs.umass.edu/personnel/kurose.html) (U Mass, Amherst), ACM Fellow, IEEE Fellow  
47 [Richard Lipton](http://www.cc.gatech.edu/people/faculty/lipton.html) (Georgia Tech), ACM Fellow, Member of the National Academy of Engineering  
47 [Judea Pearl](http://bayes.cs.ucla.edu/jp_home.html) (UCLA), IEEE Fellow, Member of the National Academy of Engineering  
47 [Ben Shneiderman](http://www.cs.umd.edu/~ben/) (U Maryland), ACM Fellow  
46 [Norman I. Badler](http://www.cis.upenn.edu/~badler) (U Penn)  
46 [Hari Balakrishnan](http://nms.csail.mit.edu/~hari/" \t "_blank) (MIT), ACM Fellow  
46 [David Harel](http://www.wisdom.weizmann.ac.il/~dharel) (The Weizmann Institute of Science), ACM Fellow, IEEE Fellow  
46 [Geoffrey E. Hinton](http://www.cs.toronto.edu/~hinton/) (Toronto)  
46 [Thomas S. Huang](http://www.ece.uiuc.edu/faculty/faculty.asp?t-huang1) (UIUC), IEEE Fellow, Member of the National Academy of Engineering  
46 [Gordon Plotkin](http://homepages.inf.ed.ac.uk/gdp) (U Edinburgh)  
46 [Tuomas Sandholm](http://www.cs.cmu.edu/~sandholm" \t "_blank) (CMU), ACM Fellow  
46 [Douglas C. Schmidt](http://www.dre.vanderbilt.edu/~schmidt) (Vanderbilt University)  
46 [John A. Stankovic](http://www.cs.virginia.edu/brochure/profs/stankovic.html) (U Virginia), ACM Fellow  
45 [Olivier Faugeras](http://www-sop.inria.fr/robotvis/personnel/faugeras/faugeras-eng.html) (INRIA), Member of the French Academy of Sciences  
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45 [Jim Gray](http://research.microsoft.com/~Gray) (Microsoft), Turing Award, ACM Fellow  
45 [M. Frans Kaashoek](http://pdos.csail.mit.edu/~kaashoek/) (MIT), ACM Fellow  
45 [Carl Kesselman](http://www.isi.edu/~carl) (USC/ISI)  
45 [Vipin Kumar](http://www-users.cs.umn.edu/~kumar/" \t "_blank) (U Minnesota), ACM Fellow, IEEE Fellow  
45 [Victor Lesser](http://dis.cs.umass.edu/lesser.html) (U Mass, Amherst), AAAI Fellow  
45 [Heikki Mannila](http://www.cs.helsinki.fi/u/mannila" \t "_blank) (U Helsinki)  
45 [Rajeev Motwani](http://theory.stanford.edu/~rajeev/) (Stanford), ACM Fellow  
45 [Badri Nath [B R Badrinath]](http://www.cs.rutgers.edu/~badri" \t "_blank) (Rutgers)  
45 [Prabhakar Raghavan](http://theory.stanford.edu/people/raghavan/" \t "_blank) (Yahoo! Research), ACM Fellow, IEEE Fellow  
45 [Eero P. Simoncelli](http://www.cns.nyu.edu/~eero" \t "_blank) (NYU), IEEE Fellow  
45 [Moshe Y. Vardi](http://www.cs.rice.edu/~vardi/) (Rice), ACM Fellow, Member of the National Academy of Engineering  
44 [Victor Basili](http://www.cs.umd.edu/~basili) (U Maryland), ACM Fellow  
44 [Christos Faloutsos](http://www.cs.cmu.edu/~christos/) (CMU)  
44 [Oded Goldreich](http://www.wisdom.weizmann.ac.il/~oded/" \t "_blank) (Weizmann)  
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