piotr dollár

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Education

UNIVERSITY OF CALIFORNIA, SAN DIEGO — San Diego, CA
Ph.D. in Computer Science, 2007.
Dissertation: *Learning from Local Image Regions*

HARVARD UNIVERSITY — Cambridge, MA
S.M. (Master of Science) in Computer Science, 2002.
A.B. Cum Laude in Computer Science, 2002.

Research Experience

FACEBOOK AI RESEARCH — Menlo Park, CA
Research Manager. June 2017 - present.

FACEBOOK AI RESEARCH — Menlo Park, CA
Research Scientist. Sept. 2014 - June 2017.

MICROSOFT RESEARCH — Redmond, WA
Researcher. Nov. 2011 - Sept. 2014.

ANCHOVI LABS — Pasadena, CA
Cofounder [acquired by Dropbox in 2012]. July 2010 - Oct. 2011.

CALIFORNIA INSTITUTE OF TECHNOLOGY — Pasadena, CA
Postdoctoral Fellow. Sept. 2007 - Oct. 2011.

TANDENT VISION SCIENCE — San Francisco, CA
Consultant. June 2006 - March 2007.

UNIVERSITY OF CALIFORNIA, SAN DIEGO — San Diego, CA
Graduate Student Researcher. Feb. 2004 - Sept. 2007.

Professional Activities

Area Chair: ICCV 2017; ECCV 2016; ICCV 2015; CVPR 2015; CVPR 2014.

Reviewer: CVPR, ICCV, ECCV, NIPS, ICLR, BMVC, PAMI, IJCV, JMLR.

Committees: ICCV 2017 Joint Workshop of the COCO and Places Challenges; ICCV 2017 Tutorial on Instance-level Visual Recognition; ECCV 2016 ImageNet and COCO Visual Recognition Challenges Joint Workshop; ICCV 2015 Tutorial on Tools for Efficient Object Detection; ICCV 2015 ImageNet and COCO Visual Recognition Challenges Joint Workshop; ICCV 2013 Computer-Vision for Vehicle Technology: From Earth to Mars [Judge]; ICCV 2013 Large Scale Visual Commerce [Panelist]; ICCV 2013 ImageNet Challenge 2013 [Panelist]; CVPR 2013 SUNw: Scene Understanding Workshop [PC]; CVPR 2011 Workshop on Human Activity Understanding from 3D Data [PC]; ECCV 2010 Workshop on Sign Gesture Activity [PC]; CVPR 2010 Workshop on Advancing Computer Vision with Humans in the Loop [PC]; CVPR 2009 Workshop on Visual Scene Understanding [Panelist]; Siemens Competition in Math, Science and Tech 2009, 2010 [Judge].

Software

GitHub: `https://github.com/pdollar/`

Piotr's Image & Video Matlab Toolbox: open source computer vision library with emphasis on recognition. Approximately **50,000** *unique* visitors in 2008-2013 (∼**400,000** page views). Available at: `http://vision.ucsd.edu/~pdollar/toolbox/doc/index.html`

Other open source toolboxes: Behavior Recognition Toolbox, Locally Smooth Manifold Learning Toolbox, Cascaded Pose Regression Toolbox, Structured Edge Detection Toolbox. Available at: `http://vision.ucsd.edu/~pdollar/research.html`

Selected Publications

Remark: For full paper list see: `http://scholar.google.com/citations?user=a8Y2OJMAAAAJ`. Jointly the **60+** papers have **15,000 citations**, an **h-index** of **39**, and an **i10-index** of **50**. In top **200** most cited researchers in computer vision of *all time* according to Google Scholar. All citation counts were obtained via Google Scholar in 2017.

T.Y. Lin, P. Goyal, R. Girshick, K. He, and P. Dollár, "Focal loss for dense object detection," *International Conf. on Computer Vision* (ICCV), 2017 [**3** citations]. **Best Student Paper.**

K. He, G. Gkioxari, P. Dollár and R. Girshick, "Mask R-CNN," *International Conference on Computer Vision* (ICCV), 2017 [**31** citations]. **Best Paper (Marr prize).**

P. Pinheiro, R. Collobert, and P. Dollár, "Learning to segment object candidates," *Advances in Neural Information Processing Systems* (NIPS), 2015 [**155** citations].

C.L. Zitnick and P. Dollár, "Edge Boxes: Locating Object Proposals from Edges," *European Conference on Computer Vision* (ECCV), 2014 [**889** citations].

P. Dollár, R. Appel, S. Belongie and P. Perona, "Fast Feature Pyramids for Object Detection," *Pattern Analysis and Machine Intelligence* (PAMI), 2014 [**703** citations].

P. Dollár and C.L. Zitnick, "Structured Forests for Fast Edge Detection," *International Conference on Computer Vision* (ICCV), 2013 [**525** citations].

D. Lin, M. Boyle, P. Dollár, H. Lee, P. Perona, E. Lein and D. Anderson, "Functional identification of an aggression locus in the mouse hypothalamus," *Nature*, 2011 [**366** citations].

P. Dollár, P. Welinder and P. Perona, "Cascaded Pose Regression," *Computer Vision and Pattern Recognition* (CVPR), 2010 [**305** citations].

P. Dollár, S. Belongie and P. Perona, "The Fastest Pedestrian Detector in the West," *British Machine Vision Conference* (BMVC), 2010 [**534** citations].

P. Dollár, Z. Tu, P. Perona and S. Belongie, "Integral Channel Features," *British Machine Vision Conference* (BMVC), 2009 [**813** citations].

P. Dollár, Z. Tu and S. Belongie, "Supervised Learning of Edges and Object Boundaries," *Computer Vision and Pattern Recognition* (CVPR), 2006 [**390** citations].

P. Dollár, V. Rabaud, G. Cottrell and S. Belongie, "Behavior Recognition via Sparse Spatio-Temporal Features," *International Conf. on Computer Vision - Visual Surveillance and Performance Evaluation of Tracking and Surveillance* (ICCV VS-PETS), 2005 [**2456** citations].