

White Paper on Obstacle Detection via a Stereoscopic Camera System, Using Deep Learning

Zhiyang Ong*, Michael Bass, Khaled Nakhleh †,
Drupad Khublani, and Venkata Pydimarri
Department of Electrical and Computer Engineering
College of Engineering
Texas A&M University

November 21, 2018

1 Section 1

There are a significant amount of references for helping people to learn L^AT_EX [1–29] and related information/technologies.

2 Alternate Plan

Data sets to use in lieu of poor, failed, and/or untimely data acquisition, and preprocessing of data set:

1. Manuela Chessa’s GENUA PESTO – GENoa hUman Active fixation database: PEripersonal space STereoscopic images and grOund truth disparity: <https://www.manuelachessa.it/sample-page/benchmarking-datasets-2/>
2. The KITTI Vision Benchmark Suite: http://www.cvlibs.net/datasets/kitti/eval_object.php
3. Mapillary Vistas Dataset: <https://www.mapillary.com/dataset/vistas?pKey=cc5dEAyQECBFF9MN3Mbdlat=20&lng=0&z=1.5>
4. ApolloScape: <http://apolloscape.auto/>
5. BDD100K self-driving dataset: [urlhttps://www.therobotreport.com/uc-berkeley-opens-self-driving-dataset-bdd100k/](https://www.therobotreport.com/uc-berkeley-opens-self-driving-dataset-bdd100k/)
6. Cityscapes Dataset: <https://www.cityscapes-dataset.com/>

References

- [1] Karl Berry and David Walden. T_EX People: Interviews from the world of T_EX. T_EX Users Group, Portland, OR, 2009.

*Email correspondence to: ✉ ongz@acm.org

†Email correspondence to: ✉ khaled.jkn@gmail.com

-
- [2] Donald Bindner and Martin Erickson. A Student's Guide to the Study, Practice, and Tools of Modern Mathematics. Discrete Mathematics and Its Applications. CRC Press, Boca Raton, FL, 2011.
 - [3] Thomas H. Cormen. Using the `clrscode3e` package in \LaTeX 2 ϵ . Available on Dartmouth College: Department of Computer Science: Prof. Thomas H. Cormen's web page: The `clrscode` and `clrscode3e` packages for \LaTeX 2 ϵ at: <http://www.cs.dartmouth.edu/~thc/clrscode/>; September 18, 2010 was the last accessed date, January 27 2010.
 - [4] Antoni Diller. \LaTeX Line by Line: Tips and Techniques for Document Processing. John Wiley & Sons, Chichester, West Sussex, England, U.K., second edition, 1999.
 - [5] Michel Goossens, Frank Mittelbach, Sebastian Rahtz, Denis Roegel, and Herbert Voß. The \LaTeX Graphics Companion. Addison-Wesley Series on Tools and Techniques for Computer Typesetting. Addison-Wesley, Reading, MA, second edition, 2007.
 - [6] Michel Goossens, Sebastian Rahtz, Eitan M. Gurari, Ross Moore, and Robert S. Sutor. The \LaTeX Web Companion: Integrating \TeX , HTML, and XML. Addison-Wesley Series on Tools and Techniques for Computer Typesetting. Addison Wesley Longman Limited, Reading, MA, 1999.
 - [7] Michel Goossens, Sebastian Rahtz, and Frank Mittelbach. The \LaTeX Graphics Companion: Illustrating documents with \TeX and PostScript. Addison-Wesley Series on Tools and Techniques for Computer Typesetting. Addison-Wesley, Reading, MA, 1997.
 - [8] George Grätzer. More Math Into \LaTeX . Springer Science+Business Media, LCC, New York, NY, fourth edition, 2007.
 - [9] David F. Griffiths and Desmond J. Higham. Learning \LaTeX . Society for Industrial and Applied Mathematics, Philadelphia, PA, 1997.
 - [10] Wilhelmiina Hämäläinen. Scientific writing for computer science students. Technical report, University of Joensuu, Joensuu, Finland, September 20 2006.
 - [11] Yannis Haralambous. Fonts & Encodings: From Unicode to Advanced Typography and Everything in Between. O'Reilly Media, Sebastopol, CA, 2007.
 - [12] Nicholas J. Higham. Handbook of Writing for the Mathematical Sciences. Society for Industrial and Applied Mathematics, Philadelphia, PA, second edition, 1998.
 - [13] Alan Hoenig. \TeX Unbound: \LaTeX & \TeX Strategies for Fonts, Graphics, & More. Oxford University Press, New York, NY, 1998.
 - [14] Donald E. Knuth. Digital Typography. Center for the Study of Language and Information – Lecture Notes. University of Chicago Press, Chicago, IL, 1999.
 - [15] Helmut Kopka and Patrick W. Daly. Guide to \LaTeX . Addison-Wesley Series on Tools and Techniques for Computer Typesetting. Addison-Wesley, Boston, MA, fourth edition, 2004.
 - [16] Sandeep Koranne. Handbook of Open Source Tools. Springer Science+Business Media, LCC, New York, NY, 2011.

- [17] Stefan Kottwitz. L^AT_EX Beginner's Guide: Create high-quality and professional-looking texts, articles, and books for business and science using L^AT_EX. Packt Publishing, Birmingham, U.K., 2011.
- [18] Steven G. Krantz. Handbook of Typography for the Mathematical Sciences. Chapman & Hall/CRC, Boca Raton, FL, 2001.
- [19] E. Krishnan. L^AT_EX Tutorials: A Primer. Indian TeX Users Group, Trivandrum, India, September 2003.
- [20] Leslie Lamport. L^AT_EX: A Document Preparation System. Addison-Wesley, Reading, MA, second edition, 1994.
- [21] Frank Mittelbach, Michel Goossens, Johannes Braams, David Carlisle, and Chris Rowley. The L^AT_EX Companion. Addison-Wesley Series on Tools and Techniques for Computer Typesetting. Addison-Wesley, Boston, MA, second edition, 2004.
- [22] Scott Pakin. The comprehensive L^AT_EX symbol list. Available online at: <http://mirror.ctan.org/info/symbols/comprehensive/symbols-a4.pdf>; July 1, 2011 was the last accessed date, January 3 2008.
- [23] Eric S. Raymond. The Art of UNIX Programming. Addison-Wesley Professional Computing Series. Pearson Education, Boston, MA, 2004.
- [24] Martin Scharrer. The tikz-timing package: A L^AT_EX package for timing diagrams. Available online at: <http://www-inst.eecs.berkeley.edu/~cs150/fa13/resources/tikz-timing.pdf> and <http://latex.scharrer-online.de/tikz-timing>; February 8, 2014 was the last accessed date, January 9 2011.
- [25] Apostolos Syropoulos, Antonis Tsolomitis, and Nick Sofroniou. Digital Typography Using L^AT_EX. Springer Professional Computing. Springer-Verlag New York, New York, NY, 2003.
- [26] TeX Users Group. Proceedings of the International Conference on TeX, XML, and Digital Typography: Held Jointly with the 25th Annual Meeting of the TeX Users Group, TUG 2004, volume 3130 of Lecture Notes in Computer Science, Xanthi, Greece, August 30-September 3 2004. Springer-Verlag Berlin Heidelberg.
- [27] UIT Cambridge. LatexConditionals. Available online at: <http://www.uit.co.uk/ForAuth/LatexConditionals>; March 20, 2013 was the last accessed date, January 17 2011.
- [28] M. R. C. van Dongen. L^AT_EX and Friends. X.media.publishing. Springer-Verlag Berlin Heidelberg, Heidelberg, Germany, 2012.
- [29] Herbert Voss. PSTricks: Graphics and PostScript for T_EX and L^AT_EX. UIT Cambridge, Cambridge, U.K., 2011.