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 LaTeX [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:

- 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

References

- [1] Karl Berry and David Walden. <u>TeX People: Interviews from the world of TeX</u>. TeX Users Group, Portland, OR, 2009.
- [2] Donald Bindner and Martin Erickson. <u>A Student's Guide to the Study, Practice, and Tools of Modern Mathematics</u>. Discrete Mathematics and Its Applications. CRC Press, Boca Raton, FL, 2011.

^{*}Email correspondence to: 💆 ongz@acm.org

[†]Email correspondence to: ≱ khaled.jkn@gmail.com

- [3] Thomas H. Cormen. Using the clrscode3e package in LaTeX 2_{ε} . Avaliable 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 Voβ. <u>The LATEX</u> <u>Graphics Companion</u>. 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. <u>The LaTEX Web Companion: Integrating TeX, HTML, and XML</u>. 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. <u>The LATEX Graphics Companion:</u> <u>Illustrating documents with TeX and PostScript</u>. 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. <u>Learning LaTeX</u>. 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. <u>Handbook of Writing for the Mathematical Sciences</u>. Society for Industrial and Applied Mathematics, Philadelphia, PA, second edition, 1998.
- [13] Alan Hoenig. <u>TeX Unbound: LaTeX & TeX Strategies for Fonts, Graphics, & More.</u> Oxford University Press, New York, NY, 1998.
- [14] Donald E. Knuth. <u>Digital Typography</u>. Center for the Study of Language and Information Lecture Notes. University of Chicago Press, Chicago, IL, 1999.
- [15] Helmut Kopka and Patrick W. Daly. <u>Guide to LATEX</u>. Addison-Wesley Series on Tools and Techniques for Computer Typesetting. Addison-Wesley, Boston, MA, fourth edition, 2004.
- [16] Sandeep Koranne. <u>Handbook of Open Source Tools</u>. Springer Science+Business Media, LCC, New York, NY, 2011.
- [17] Stefan Kottwitz. Latex Beginner's Guide: Create high-quality and professional-looking texts, articles, and books for business and science using Latex. Packt Publishing, Birmingham, U.K., 2011.
- [18] Steven G. Krantz. <u>Handbook of Typography for the Mathematical Sciences</u>. Chapman & Hall/CRC, Boca Raton, FL, 2001.

Zhiyang Ong 2

- [19] E. Krishnan. <u>LATEX Tutorials: A Primer.</u> Indian TeX Users Group, Trivandrum, India, September 2003.
- [20] Leslie Lamport. <u>IFTEX: A Document Preparation System.</u> Addison-Wesley, Reading, MA, second edition, 1994.
- [21] Frank Mittelbach, Michel Goossens, Johannes Braams, David Carlisle, and Chris Rowley. <u>The LATEX Companion</u>. Addison-Wesley Series on Tools and Techniques for Computer Typesetting. Addison-Wesley, Boston, MA, second edition, 2004.
- [22] Scott Pakin. The comprehensive LATEX 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. <u>The Art of UNIX Programming</u>. Addison-Wesley Professional Computing Series. Pearson Education, Boston, MA, 2004.
- [24] Martin Scharrer. The tikz-timing package: A LATEX 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. <u>Digital Typography Using LaTeX</u>. 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. <u>IFTEX and Friends</u>. X.media.publishing. Springer-Verlag Berlin Heidelberg, Heidelberg, Germany, 2012.
- [29] Herbert Voss. <u>PSTricks: Graphics and PostScript for T_EX and L^AT_EX.</u> UIT Cambridge, Cambridge, U.K., 2011.

Zhiyang Ong 3