



Step
in LATEX

Qiu

What is
LATEX?

Why do we
use LATEX?

How does
LATEX work?

Some
Interesting
Applica-
tions

LATEX and
Research

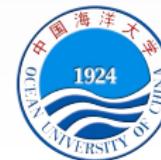
Step in LATEX

SFD 2014

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CVBIOUC
Ocean University of China
<http://vision.ouc.edu.cn/~zhenghaiyong>

September 19, 2014





Contents

Step
in LATEX

Qiu

What is
LATEX?

Why do we
use LATEX?

How does
LATEX work?

Some
Interesting
Applica-
tions

LATEX and
Research

1 What is LATEX?

2 Why do we use LATEX?

3 How does LATEX work?

4 Some Interesting Applications

5 LATEX and Research



What is LATEX?

Step
in LATEX

Qiu

What is
LATEX?

Why do we
use LATEX?

How does
LATEX work?

Some
Interesting
Applica-
tions

LATEX and
Research

- TeX is a computer program created by *Donald E. Knuth*, and it is also a typesetting language.
- LATEX is a large set of macros built on top of TeX and was originally written by Leslie Lamport.
- LATEX is a typesetting system that is very suitable for the documents of *high typographical quality*.
 - LATEX2.09 ⇒ LATEX 2 ϵ ⇒ LATEX3



What is LATEX?

Step
in LATEX

Qiu

What is
LATEX?

Why do we
use LATEX?

How does
LATEX work?

Some
Interesting
Applications

LATEX and
Research

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- LATEX is a large set of macros built on top of T_EX and was originally written by Leslie Lamport.
- LATEX is a typesetting system that is very suitable for the documents of *high typographical quality*.
 - LATEX2.09 ⇒ LATEX 2_ε ⇒ LATEX3



What is LATEX?

Step
in LATEX

Qiu

What is
LATEX?

Why do we
use LATEX?

How does
LATEX work?

Some
Interesting
Applica-
tions

LATEX and
Research

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 - LATEX2.09 ⇒ LATEX 2 ε ⇒ LATEX3



Why do we use LATEX?

Step
in LATEX

Qiu

What is
LATEX?

Why do we
use LATEX?

How does
LATEX work?

Some
Interesting
Applica-
tions

LATEX and
Research

- Word is WYSIWYG (What You See Is What You Get)



Why do we use LATEX?

Step
in LATEX

Qiu

What is
LATEX?

Why do we
use LATEX?

How does
LATEX work?

Some
Interesting
Applica-
tions

LATEX and
Research

- Word is **WYSIWYG** (What You See Is What You Get)
- LATEX is **WYTIWYG** (What You Think Is What You Get)



Why do we use LATEX?

Step
in LATEX

Qiu

What is
LATEX?

Why do we
use LATEX?

How does
LATEX work?

Some
Interesting
Applica-
tions

LATEX and
Research

- Word is **WYSIWYG** (What You See Is What You Get)
- LATEX is **WYTIWYG** (What You Think Is What You Get)
- Microsoft Word is OK, but LATEX is perfect.



High typographical quality

Step
in LATEX

Qiu

What is
LATEX?

Why do we
use LATEX?

How does
LATEX work?

Some
Interesting
Applica-
tions

LATEX and
Research

- High typographical quality of the documents.
 - article, report, book, slides, beamers
- Professionally crafted layouts are available, which make a document really look as if “printed”.



High typographical quality

Step in LATEX

Qiu

What is LATEX?

Why do we use LATEX?

How does LATEX work?

Some Interesting Applications

LATEX and Research

Contents

Thank you!	iii
Preface	v
1 Things You Need to Know	
1.1 The Name of the Game	1
1.1.1 \TeX	1
1.1.2 \LaTeX	2
1.2 Basics	2
1.2.1 Author, Book Designer, and Typesetter	2
1.2.2 Layout Design	2
1.2.3 Advantages and Disadvantages	3
1.3 $\text{\L}\text{\TeX}$ Input Files	4
1.3.1 Spaces	4
1.3.2 Special Characters	4
1.3.3 $\text{\L}\text{\TeX}$ Commands	5
1.3.4 Comments	6
1.4 Input File Structure	6
1.5 A Typical Command Line Session	8
1.6 The Layout of the Document	9
1.6.1 Document Classes	9
1.6.2 Packages	9
1.6.3 Page Styles	11
1.7 Files You Might Encounter	11
1.8 Big Projects	13
2 Typesetting Text	15
2.1 The Structure of Text and Language	15
2.2 Line Breaking and Page Breaking	17
2.2.1 Justified Paragraphs	17
2.2.2 Hyphenation	18
2.3 Ready-Made Strings	19
2.4 Special Characters and Symbols	19
2.4.1 Quotation Marks	19

Chapter 1

Things You Need to Know

The first part of this chapter presents a short overview of the philosophy and history of $\text{\L}\text{\TeX}2\text{e}$. The second part focuses on the basic structures of a \TeX document. After reading this chapter, you should have a rough knowledge of how \TeX works, which you will need to understand the rest of this book.

1.1 The Name of the Game

1.1.1 \TeX

\TeX is a computer program created by Donald E. Knuth [3]. It is aimed at typesetting text and mathematical formulae. Knuth started writing the \TeX typesetting engine in 1977 to explore the potential of the digital printing equipment that was beginning to infiltrate the publishing industry at that time, especially in the hope that he could reverse the trend of deteriorating typographical quality that he saw affecting his own books and articles. \TeX as we use it today was released in 1982, with some slight enhancements added in 1989 to better support 8-bit characters and multiple languages. \TeX is renowned for being extremely stable, for running on many different kinds of computers, and for being virtually bug free. The version number of \TeX is converging to π and is now at 3.141592653.

\TeX is pronounced “Tech,” with a “ch” as in the German word “Ach”¹ or in the Scottish “Loch.” The “ch” originates from the Greek alphabet where X is the letter “ch” or “chi”. \TeX is also the first syllable of the Greek word $\tau\text{e}\chi\text{v}\sigma\text{t}$ (technique). In an ASCII environment, \TeX becomes \TeX .

¹In general, there are actually two pronunciations for “ch” and one might assume that the soft “ch” sound from “Pech” would be a more appropriate. Asked about this, Knuth wrote in the German Wikipedia: *I do not get angry when people pronounce \TeX in their favorite way ... and in Germany many use a soft ch because the X follows the vowel e, not the harsh ch that follows the vowel a. In Russia, “tex” is a very common word, pronounced “tyesh”. But I believe the most proper pronunciation is heard in Greece, where you have the harsher ch of och and Loch.*



Graceful Mathematical formulae

Step
in LATEX

Qiu

What is
LATEX?

Why do we
use LATEX?

How does
LATEX work?

Some
Interesting
Applications

LATEX and
Research

Add a squared and b squared to get c squared. Or,
using a more mathematical approach:

$$c^2 = a^2 + b^2$$

or you can type less with:

$$a + b = c$$



Graceful Mathematical formulae

Step
in LATEX

Qiu

What is
LATEX?

Why do we
use LATEX?

How does
LATEX work?

Some
Interesting
Applica-
tions

LATEX and
Research

$$\underbrace{a + b + \cdots + y + z}_{26}^{24}$$

$$y = \begin{cases} a & \text{if } d > c \\ b + x & \text{in the morning} \\ l & \text{all day long} \end{cases}$$

$$E(u) = \int_{\Omega} \phi(|\nabla u|) + \lambda \int_{\Omega} (f - Ru)^2 dx$$

$$p'(z) = c \sum_{k=1}^n \prod_{\substack{i=1 \\ i \neq k}}^n (z - r_i) = \sum_{k=1}^n p(z)/(z - r_k)$$



Graceful Mathematical formulae

Step
in LATEX

Qiu

What is
LATEX?

Why do we
use LATEX?

How does
LATEX work?

Some
Interesting
Applications

LATEX and
Research

$$\begin{bmatrix} d_1 & c_1 \\ a_1 & d_2 & c_2 \\ & a_2 & d_3 & c_3 \\ & & a_3 & d_4 & c_4 \\ & & \ddots & \ddots & \ddots \\ & & & a_{n-2} & d_{n-1} & c_{n-1} \\ & & & a_{n-1} & d_n \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \\ x_3 \\ x_4 \\ \vdots \\ x_{n-1} \\ x_n \end{bmatrix} = \begin{bmatrix} b_1 \\ b_2 \\ b_3 \\ b_4 \\ \vdots \\ b_{n-1} \\ b_n \end{bmatrix}$$



Graceful Mathematical formulae

Step
in LATEX

Qiu

What is
LATEX?

Why do we
use LATEX?

How does
LATEX work?

Some
Interesting
Applica-
tions

LATEX and
Research

$$\begin{aligned}(LU)_{ij} &= \sum_{k=1}^n l_{ik} u_{kj} = \sum_{k=1}^j l_{ik} a_{kj}^{(k)} \\&= \sum_{k=1}^j (a_{ij}^{(k)} - a_{ij}^{(k+1)}) \\&= a_{ij}^{(1)} - a_{ij}^{j+1} \\&= a_{ij}^{(1)} = a_{ij}\end{aligned}$$



Make a presentation

Step
in LATEX

Qiu

What is
LATEX?

Why do we
use LATEX?

How does
LATEX work?

Some
Interesting
Applica-
tions

LATEX and
Research

- Learn a few **easy-to-understand** commands that specify the logical structure of a document.



Make a presentation

Step
in LATEX

Qiu

What is
LATEX?

Why do we
use LATEX?

How does
LATEX work?

Some
Interesting
Applications

LATEX and
Research

```
1 \documentclass{beamer}
2 \usepackage[utf8]{inputenc}
3
4 %Information to be included in the title page:
5 \title{Sample title}
6 \author{Anonymous}
7 \date{2014}
8
9 \begin{document}
10
11 \begin{frame}
12 \frametitle{Sample frame title}
13 This is a text in first frame.
14 \end{frame} %
15
16 \end{document}
```



Make a presentation

Step
in LATEX

Qiu

What is
LATEX?

Why do we
use LATEX?

How does
LATEX work?

Some
Interesting
Applica-
tions

LATEX and
Research

Sample frame title

This is a text in first frame.



Free various packages

Step
in LATEX

Qiu

What is
LATEX?

Why do we
use LATEX?

How does
LATEX work?

Some
Interesting
Applications

LATEX and
Research

- Free add-on packages exist for many typographical tasks not directly supported by basic LATEX.

- Coloured text
- Include graphics.
- Bring source code from a file into your document.
- . . .



Multi-platform applications

Step
in LATEX

Qiu

What is
LATEX?

Why do we
use LATEX?

How does
LATEX work?

Some
Interesting
Applications

LATEX and
Research

- TeX, the formatting engine of LATEX 2 ε , is highly portable and free. Therefore the system runs on almost any hardware platform available.

TeX Collection 2014

DVD
June 2014

dante e.V.
www.dante.de

GUTenberg
gutenberg.eu.org



www.tug.org



proTeXt

TeX for MS Windows
based on MiKTeX

MacTeX

TeX for Mac OS X
including full TeX Live

TeX Live

TeX for GNU/Linux, Unix,
and MS Windows

CTAN

Comprehensive TeX
Archive Network

Editors: Thomas Feuerstack (proTeXt) • Karl Berry (TeX Live)
Richard Koch (MacTeX) • Manfred Lotz (CTAN)



... and more

Step
in LATEX

Qiu

What is
LATEX?

Why do we
use LATEX?

How does
LATEX work?

Some
Interesting
Applica-
tions

LATEX and
Research

- Stable, Free and Open Source.
- LATEX is very flexible, and will do the things you want.
- ...



How does LATEX work?

Step
in LATEX

Qiu

What is
LATEX?

Why do we
use LATEX?

How does
LATEX work?

Some
Interesting
Applica-
tions

LATEX and
Research

- LATEX is a typesetting system

- 1 Taking a text file, containing LATEX commands, as input
 - 2 Produces a PDF, DVI or PS file



How does LATEX work?

Step
in LATEX

Qiu

What is
LATEX?

Why do we
use LATEX?

How does
LATEX work?

Some
Interesting
Applications

LATEX and
Research

- Create text file using editor and save as `some.tex`.
- Compile the file using command
 - use `latex some.tex` ⇒ `some.dvi`
 - use `dvips some.dvi` ⇒ `some.ps`
 - use `pdflatex(xelatex)` `some.tex` ⇒ `some.pdf`



Theorem

Step
in LATEX

Qiu

What is
LATEX?

Why do we
use LATEX?

How does
LATEX work?

Some
Interesting
Applications

LATEX and
Research

THEOREM 1 (Theorem on Matrix Inverse)

If A and B are square matrices such that $AB = I$, then $BA = I$.

Proof.

Let $C = BA - I + B$. Then

$$AC = ABA - AI + AB = A - A + I = I$$

Thus, C (as well as B) is a right inverse of A . By Theorem 2, $B = C$; hence, $BA = I$. □



Table

Step
in LATEX

Qiu

What is
LATEX?

Why do we
use LATEX?

How does
LATEX work?

Some
Interesting
Applications

LATEX and
Research

7C0	hexadecimal
3700	octal
11111000000	binary
1984	decimal

Class	A	B	C	D
X	1	2	3	4
Y	3	4	5	6
Z	5	6	7	8

资源限量	甲	乙	资源总数
煤	9	4	360
电	4	5	200
油	3	10	300
单位价格	7	12	*



Geometry

Step
in LATEX

Qiu

What is
LATEX?

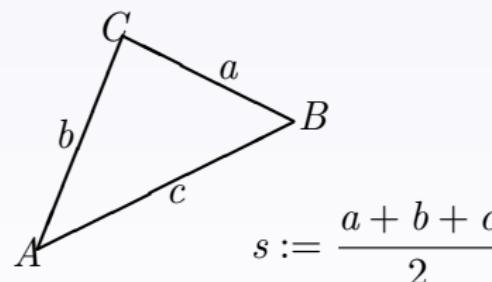
Why do we
use LATEX?

How does
LATEX work?

Some
Interesting
Applications

LATEX and
Research

$$F = \sqrt{s(s-a)(s-b)(s-c)}$$





Insert Python scripts

Step
in LATEX

Qiu

What is
LATEX?

Why do we
use LATEX?

How does
LATEX work?

Some
Interesting
Applica-
tions

LATEX and
Research

```
1 #!/usr/local/bin/python
2 print "Hello World"
3 os.system("""
4 VAR=even;
5 sed -i "s/$VAR/odd/" testfile;
6 for i in `cat testfile` ;
7 do echo $i; done;
8 echo "now the tr command is removing the vowels";
9 cat testfile |tr 'aeiou' ''
10 """)
```



Columns and Blocks

Step
in LATEX

Qiu

What is
LATEX?

Why do we
use LATEX?

How does
LATEX work?

Some
Interesting
Applications

LATEX and
Research

The OUC logo



This is the logo of OUC.
海纳百川，取则行远。



Figures

Step
in LATEX

Qiu

What is
LATEX?

Why do we
use LATEX?

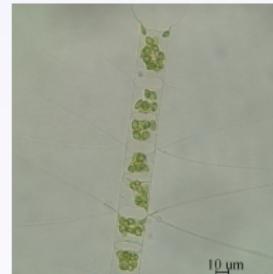
How does
LATEX work?

Some
Interesting
Applica-
tions

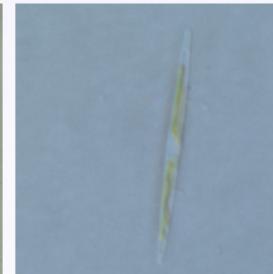
LATEX and
Research

生物形态学分类特征

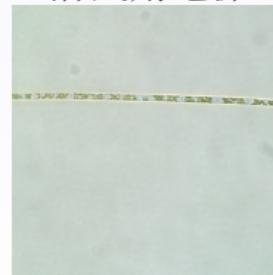
形状、突起、角毛



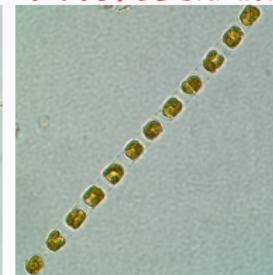
洛氏角毛藻



尖刺伪菱形藻



丹麦细柱藻



热带骨条藻



Some Interesting Applications

Step
in LATEX

Qiu

What is
LATEX?

Why do we
use LATEX?

How does
LATEX work?

Some
Interesting
Applica-
tions

LATEX and
Research

硅藻门 3/12

22	旋链角毛藻	<i>Chaetoceros curvisetus</i>	
23	洛氏角毛藻	<i>Chaetoceros lorenzianus</i>	✓
24	聚生角毛藻	<i>Chaetoceros socialis</i>	
25	尖刺伪菱形藻	<i>Pseudo-nitzschia pungens</i>	✓
26	多纹伪菱形藻	<i>Pseudo-nitzschia multistriata</i>	
27	丹麦细柱藻	<i>Leptocylindrus danicus</i>	✓
28	新月筒柱藻	<i>Cylindrotheca closterium</i>	
29	派格棍形藻	<i>Bacilaria paxillifera</i>	
30	热带骨条藻	<i>Skeletonema tropicum</i>	✓
31	旋转海链藻	<i>Thalassiosira curviseriate</i>	
32	圆海链藻	<i>Thalassiosira rotula</i>	
33	双环海链藻	<i>Thalassiosira diporocyclus</i>	

针胞藻纲 2/2

34	海洋卡盾藻	<i>Chattonella marina</i>	✓
35	赤潮异湾藻	<i>Heterosigma akashiwo</i>	✓

硅鞭藻纲 0/2

36	小等刺硅鞭藻	<i>Dictyochafibula</i>	✓
37	六异刺硅鞭藻	<i>Distephanus speculum</i>	

隐藻门 0/1 定鞭藻纲 1/1 蓝藻门 0/1

38	抢鞋隐藻	<i>Cryptomonas calceiformis</i>	
39	球形棕囊藻	<i>Phaeocystis globosa</i>	✓
40	红海束毛藻	<i>Trichodesminu erythraeum</i>	✓

Circuit diagram

Step
in LATEX

Qiu

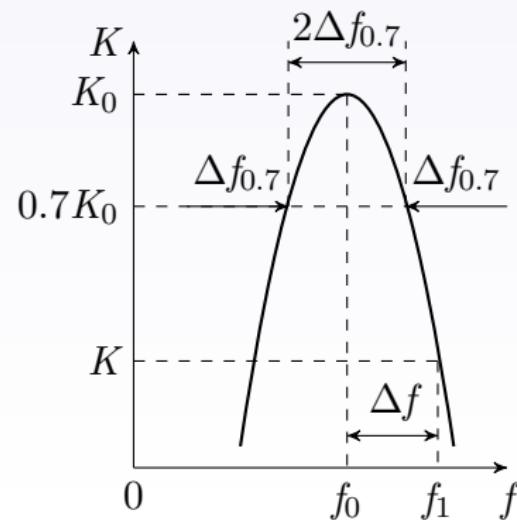
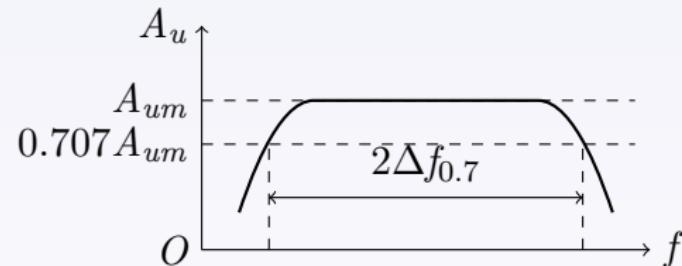
What is
LATEX?

Why do we
use LATEX?

How does
LATEX work?

Some
Interesting
Applications

LATEX and
Research





CV or resume

Step
in LATEX

Qiu

What is
LATEX?

Why do we
use LATEX?

How does
LATEX work?

Some
Interesting
Applica-
tions

LATEX and
Research

ROGER DARLING

Local Address
19 Tibbits Avenue
Troy, NY 12180
(518) 274-3087

Permanent Address
29 Amorous Avenue
Madison, NJ 07940
(201) 777-3821

OBJECTIVE A summer position in the field of Electrical Engineering with emphasis on communications or control systems.

EDUCATION B.S., Electrical Engineering
Rensselaer Polytechnic Institute, Troy, NY
GPA: 3.3/4.0
Expected Date of Graduation: May, 1988

EXPERIENCE Yeides, Inc., Union, NJ
Assistant Manager 7/82-5/86

Managed operation of store including opening, closing, supervising employees, inventory control, and customer service.

A & P Supermarket, Madison, NJ
Meat Department Assistant 5/83-8/84

Assisted department manager with ordering, pricing, and maintaining department inventory.

HONORS Dean's List, Rensselaer Polytechnic Institute
Clayton and Mary Shelley Scholarship
United Food and Commercial Workers Union Scholarship
National Honor Society

ACTIVITIES Delta Tau Sigma Fraternity Rush Chairman
Coordinated and ran house events and meetings during the first eight weeks of the semester. Facilitated a successful rush that increased house membership by 20.

Student Orientation Advisor

Student Advisory Board to Electrical Engineering Department

Ice Hockey and various intramural sports



Specialities

Step
in LATEX

Qiu

What is
LATEX?

Why do we
use LATEX?

How does
LATEX work?

Some
Interesting
Applica-
tions

LATEX and
Research

- LATEX is proper to create, edit and publish your research.

- Thesis
- Conference papers
- Journal papers
- Book
- ...



LATEX and zhenglab

Step
in LATEX

Qiu

What is
LATEX?

Why do we
use LATEX?

How does
LATEX work?

Some
Interesting
Applications

LATEX and
Research

zhenglab / **LaTeX_Numerical-Analysis_Kincaid** Unwatch 6 Star 0 Fork

Notes for Numerical Analysis by David Ronald Kincaid and Elliott Ward Cheney.

41 commits 1 branch 0 releases 5 contributors

branch: master [LaTeX_Numerical-Analysis_Kincaid](#) +

Select Topics in Numerical Linear Algebra

sunxiaoqing	authored on 12 Dec 2013	latest commit a79c64dab9
Chap1	Delete 1-2.tex~	11 months ago
Chap2	Absolute and Relative Errors: Loss of Significance & Stable and Unsta...	a year ago
Chap3	Homotopy and Continuation Methods	11 months ago
Chap4	Steepest Descent and Conjugate Gradient Methods	10 months ago
Chap5	Select Topics in Numerical Linear Algebra	9 months ago
Chap6/chap6-1	Approximating Functions	9 months ago
.gitignore	Initial commit	a year ago
LICENSE	Initial commit	a year ago
README.md	Initial commit	a year ago

[README.md](#)

LaTeX_Numerical-Analysis_Kincaid

Notes for Numerical Analysis by David Ronald Kincaid and Elliott Ward Cheney.

Code Issues Pull Requests Wiki Pulse Graphs HTTPS clone URL https://github.com/ You can clone with HTTPS, S or Subversion. Clone in Desktop Download ZIP



IATEX and zhenglab

Step
in IATEX

Qiu

What is
IATEX?

Why do we
use IATEX?

How does
IATEX work?

Some
Interesting
Applications

IATEX and
Research

```
\documentclass[10pt,twocolumn,letterpaper]{article}
```

```
\usepackage{cvpr}
\usepackage{times}
\usepackage{epsfig}
\usepackage{graphicx}
\usepackage{amsmath}
\usepackage{amssymb}
```

% Include other packages here, before hyperref.

% If you comment hyperref and then uncomment it, you should delete
% egpaper.aux before re-running latex. (Or just hit 'q' on the first latex
% run, let it finish, and you should be clear).

```
\usepackage[breaklinks=true,bookmarks=false]{hyperref}
```

\cvprfinalcopy % *** Uncomment this line for the final submission

```
\def\cvprPaperID{****} % *** Enter the CVPR Paper ID here
\def\htilide{\fbox{\tt\raisebox{-.5ex}{\symbol{126}}}}
```

% Pages are numbered in submission mode, and unnumbered in camera-ready

```
\% \ifcvprfinal\pagestyle{empty}\fi
\setcounter{page}{4321}
\begin{document}
```

%%%%%%%%%% TITLE
\title{\LaTeX{} Author Guidelines for CVPR Proceedings}

```
\author{First Author\\
Institution1\\
Institution1 address\\
```

IATEX Author Guidelines for CVPR Proceedings

First Author
Institution1
Institution1 address
firstauthor@lll.org

Second Author
Institution2
Institution2 address
secondauthor@lll.org

Abstract

The ABSTRACT is to be in fully justified indented text at the top of the left-hand column, below the author and affiliation information. Use the word "Abstract" as the title, in 12-point *Times*, boldface type, centered relative to the columns, initially capitalized. The abstract is to be in 10-point, single-spaced type. Leave two blank lines after the Abstract, then begin the main text. Look at previous CVPR abstracts to get a feel for style and length.

1. Introduction

Please follow the steps outlined below when submitting your manuscript to the IEEE Computer Society Press. This style guide is designed to help you prepare manuscripts for IEEE journals. You are no longer required against the use of sticky tape to attach your artwork to the paper, so all authors should read this new version.

1.1. Language

All manuscripts must be in English.

1.2. Dual submission

By submitting a manuscript to CVPR, the author guarantees that it has not been previously published or accepted for publication in substantially similar form in an archival peer-reviewed forum. Furthermore, no paper which contains substantial parts of this manuscript or any part of this paper is neither under review at the moment of submission nor will be submitted during the CVPR 2014 review period to any of the following: another conference, a workshop, or a journal. The author also states that the manuscript is submitted only to the above-mentioned CVPR 2014. Violation of any of these conditions will lead to rejection. If you are not sure about the extent of overlap, you may upload a copy of the paper in question as supplementary material. Note that a Technical Report (departmental, arXiv.org, etc.) that is put up without any form of direct peer-review is NOT

considered a publication. Likewise, mention of the work under review in a presentation is NOT considered a violation.

If there are papers that may appear to the reviewers to violate this condition, then it is your responsibility to: (1) cite these papers (preserving anonymity as described in Section 1.6 below), (2) argue in the body of your paper why your CVPR paper is non-trivially different from those concurrent publications, and (3) include anonymized versions of those papers in the supplemental material.

1.3. Paper length

CVPR papers should be between 6 pages and 8 pages, with a 500-word page added for. Overlength papers will simply not be reviewed. This includes papers where the margins and formatting are deemed to have been significantly altered from those laid down by this style guide. Note that this IEEE guide already sets figure captions and references in a standard manner. The author is responsible for the review is that there is no provision for supervised review of manuscripts. The reviewing process cannot determine the suitability of the paper for presentation in eight pages if it is reviewed in eleven. If you submit 8 for review expect to pay the added page charges for them.

1.4. The ruler

The IATEX style defines a printed ruler which should be present in the version submitted for review. The ruler is provided in order that reviewers may comment on particular items in the paper. If you are preparing a manuscript for submission to the IEEE Computer Society Press or are preparing a document using a non-IATEX document preparation system, please arrange for an equivalent ruler to appear on the final output pages. The presence or absence of the ruler should not detract from the appearance of any other content on the page. The current LaTeX style copy should not contain a ruler. IATEX users may comment the \cvprfinalcopy command in the document preamble. Reviewers: note that the ruler measurements do not align well with lines in the paper — this turns out to be very difficult to do well when the paper contains many figures



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How does
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Some
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- More usepackages can be found:
<http://www.ctan.org/>
- LATEX help document:
<http://www.ctan.org/tex-archive/info/lshort>
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