Global Illumination for Fun and Profit

Roy G. Biv*
Starbucks Research

Ed Grimley†
Grimley Widgets, Inc.

Martha Stewart‡
Martha Stewart Enterprises
Microsoft Research

ABSTRACT

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Index Terms: K.6.1 [Management of Computing and Information Systems]: Project and People Management—Life Cycle; K.7.m [The Computing Profession]: Miscellaneous—Ethics

1 INTRODUCTION

This template is for papers of VGTC-sponsored conferences which are *not* published in a special issue of TVCG.

2 USING THE STYLE TEMPLATE

- The style uses the hyperref package, thus turns references into internal links. We thus recommend to make use of the "\autoref{reference}" call (instead of "Figure~\ref{reference}" or similar) since "\autoref{reference}" turns the entire reference into an internal link, not just the number. Examples: Fig. 1 and Table 1.

- The style automatically looks for image files with the correct extension (eps for regular LaTeX; pdf, png, and jpg for pdfLaTeX), in a set of given subfolders (figures/, pictures/, images/). It is thus sufficient to use "\includegraphics{CypressView}" (instead of "\includegraphics{pictures/CypressView.jpg}").

- For adding hyperlinks and DOIs to the list of references, you can use "\bibliographystyle{abbrv-doi-hyperref-narrow}" (instead of "\bibliographystyle{abbrv}"). It uses the doi and url fields in a bibTeX entry and turns the entire reference into a link, giving priority to the doi. The doi can be entered with or without the "http://dx.doi.org/" url part. See the examples in the bibTeX file and the bibliography at the end of this template.

    Note 1: occasionally (for some LaTeX distributions) this

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*e-mail: roy.g.biv@aol.com
†e-mail:ed.grimley@aol.com
‡e-mail:martha.stewart@marthastewart.com

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hyper-linked bibTeX style may lead to **compilation errors** ("pdfendlink ended up in different nesting level ...") if a reference entry is broken across two pages (due to a bug in hyperref). In this case make sure you have the latest version of the hyperref package (i. e., update your LaTeX installation/packages) or, alternatively, revert back to "\bibliographystyle{abbrv-doi-narrow}" (at the expense of removing hyperlinks from the bibliography) and try "\bibliographystyle{abbrv-doi-hyperref-narrow}" again after some more editing.

Note 2: the "-narrow" versions of the bibliography style use the font "PTSansNarrow-TLF" for typesetting the DOIs in a compact way. This font needs to be available on your LaTeX system. It is part of the "paratype" package, and many distributions (such as MikTeX) have it automatically installed. If you do not have this package yet and want to use a "-narrow" bibliography style then use your LaTeX system's package installer to add it. If this is not possible you can also revert to the respective bibliography styles without the "-narrow" in the file name.

DVI-based processes to compile the template apparently cannot handle the different font so, by default, the template file uses the abbrv-doi bibliography style but the compiled PDF shows you the effect of the abbrv-doi-hyperref-narrow style.

3 BIBLIOGRAPHY INSTRUCTIONS

- Sort all bibliographic entries alphabetically but the last name of the first author. This LaTeX/bibTeX template takes care of this sorting automatically.

- Merge multiple references into one; e. g., use [3,5] (not [3] [5]). Within each set of multiple references, the references should be sorted in ascending order. This LaTeX/bibTeX template takes care of both the merging and the sorting automatically.

- Verify all data obtained from digital libraries, even ACM's DL and IEEE Xplore etc. are sometimes wrong or incomplete.

- Do not trust bibliographic data from other services such as Mendeley.com, Google Scholar, or similar; these are even more likely to be incorrect or incomplete.

- Articles in journal—items to include:

    - author names
    - title
    - journal name
    - year
    - volume
    - number
    - month of publication as variable name (i. e., {jan} for January, etc.; month ranges using {jan #{/}# feb} or {jan #{--}# feb})

- use journal names in proper style: correct: "IEEE Transactions on Visualization and Computer Graphics", incorrect: "Visualization and Computer Graphics, IEEE Transactions on"

- Papers in proceedings—items to include:

  - author names
  - title
  - abbreviated proceedings name: e.g., "Proc.\ CONF_ACRONYNM" without the year; example: "Proc.\ CHI", "Proc.\ 3DUI", "Proc.\ Eurographics", "Proc.\ EuroVis"
  - year
  - publisher
  - town with country of publisher (the town can be abbreviated for well-known towns such as New York or Berlin)

- article/paper title convention: refrain from using curly brackets, except for acronyms/proper names/words following dashes/question marks etc.; example:

  - paper "Marching Cubes: A High Resolution 3D Surface Construction Algorithm"
  - should be entered as "{M}arching {C}ubes: A High Resolution {3D} Surface Construction Algorithm" or "{M}arching {C}ubes: A high resolution {3D} surface construction algorithm"
  - will be typeset as "Marching Cubes: A high resolution 3D surface construction algorithm"

- for all entries

  - DOI can be entered in the DOI field as plain DOI number or as DOI url; alternative: a url in the URL field
  - provide full page ranges AA--BB

- when citing references, do not use the reference as a sentence object; e. g., wrong: "In [4] the authors describe . . . ", correct: "Lorensen and Cline [4] describe . . . "

4 EXAMPLE SECTION

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5 EXPOSITION

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Table 1: VIS/VisWeek accepted/presented papers: 1990–2015.

year	Vis/SciVis	SciVis conf	InfoVis	VAST	VAST conf	TVCG @ VIS	CG&A @ VIS	VIS/VisWeek incl. TVCG/CG&A	VIS/VisWeek w/o TVCG/CG&A
2015	33	9	38	33	14	17	15	159	127
2014	34		45	33	21	20		153	133
2013	31		38	32		20		121	101
2012	42		44	30		23		139	116
2011	49		44	26		20		139	119
2010	48		35	26				109	109
2009	54		37	26				117	117
2008	50		28	21				99	99
2007	56		27	24				107	107
2006	63		24	26				113	113
2005	88		31					119	119
2004	70		27					97	97
2003	74		29					103	103
2002	78		23					101	101
2001	74		22					96	96
2000	73		20					93	93
1999	69		19					88	88
1998	72		18					90	90
1997	72		16					88	88
1996	65		12					77	77
1995	56		18					74	74
1994	53							53	53
1993	55							55	55
1992	53							53	53
1991	50							50	50
1990	53							53	53
sum	**1515**	**9**	**595**	**277**	**35**	**100**	**15**	**2546**	**2431**

$$\sum_{j=1}^{z} j = \frac{z(z+1)}{2} \tag{1}$$

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5.1 Lorem ipsum

Lorem ipsum dolor sit amet (see Table 1), consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet. Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos e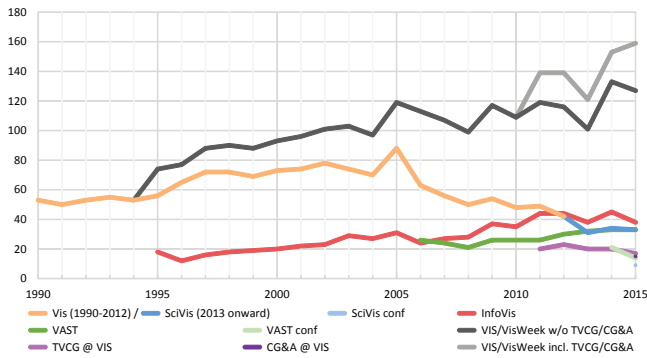t accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet. Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum.

Figure 1: A visualization of the data from Table 1. The image is from [1] and is in the public domain.

5.2 Mezcal Head

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5.2.2 Ejector Seat Reservation

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Confirmed Ejector Seat Reservation Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat [6]. Duis autem vel eum iriure dolor in hendrerit in vulputate velit esse molestie consequat, vel illum dolore eu feugiat nulla facilisis at vero eros et accumsan et iusto odio dignissim qui blandit praesent luptatum zzril delenit augue duis dolore te feugait nulla facilisi.

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[1]The algorithm behind Marching Cubes [4] had already been described by Wyvill et al. [7] a year earlier.

[2]Footnotes appear at the bottom of the column.

Rejected Ejector Seat Reservation Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat. Duis autem vel eum iriure dolor in hendrerit in vulputate velit esse molestie

6 CONCLUSION

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