

Global Illumination for Fun and Profit

Roy G. Biv, Ed Grimley, *Member, IEEE*, and Martha Stewart

Fig. 1. In the Clouds: Vancouver from Cypress Mountain.

Abstract—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 dui dolore te feugait nulla facilisi. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. 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 consequat, vel illum dolore eu feugiat nulla facilisis at vero eros et accumsan et iusto odio dignissim qui blandit praesent luptatum zzril delenit augue dui dolore te feugait nulla facilisi.

Index Terms—Radiosity, global illumination, constant time

1 INTRODUCTION

This template is for papers of VGTC-sponsored conferences such as IEEE VIS, IEEE VR, and ISMAR which are published as special issues of TVCG. The template does not contain the respective dates of the conference/journal issue, these will be entered by IEEE as part of the publication process.

2 USING THE STYLE TEMPLATE

- Note that each author needs to have a separate entry in author footer on the bottom-left corner of the first page, merging two people (even if from the same institution) is not permitted.
- 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: ?? and ??.
- The style automatically looks for image files with the correct extension (eps for regular \LaTeX ; pdf, png, and jpg for pdf \LaTeX), 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 bib \TeX 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 (for **DOIs with more than one forward slash in the actual DOI** part please use the complete URL). See the examples in the bib \TeX file and the bibliography at the end of this template.

Note 1: occasionally (for some \LaTeX distributions) this hyper-linked bib \TeX 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`).

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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 template takes care of this automatically.
- Merge multiple references into one; e. g., use [?, ?] (not [?] [?]). Within each set of multiple references, the references should be sorted in ascending order. This \LaTeX template takes care of this automatically.
- Verify all data obtained from digital libraries, even ACM’s DL and IEEE Xplore etc. are wrong or incomplete sometimes.
- 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_ACRONYM” without the year; example: “Proc.\ CHI”, “Proc.\ 3DUT”, “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
- for all entries: provide full page ranges AA--BB
- when citing references, do not use the reference as a sentence object; e. g., wrong: “In [?] the authors describe ...”, correct: “Lorensen and Cline [?] describe ...”

4 EXAMPLE SECTION

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5 EXPOSITION

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Table 1. Vis Paper Acceptance Rate: 1994–2006.

Year	Submitted	Accepted	Accepted (%)
1994	91	41	45.1
1995	102	41	40.2
1996	101	43	42.6
1997	117	44	37.6
1998	118	50	42.4
1999	129	47	36.4
2000	151	52	34.4
2001	152	51	33.6
2002	172	58	33.7
2003	192	63	32.8
2004	167	46	27.6
2005	268	88	32.8
2006	228	63	27.6

Fig. 2. Sample illustration.

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6 CONCLUSION

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ACKNOWLEDGMENTS

The authors wish to thank A, B, C. This work was supported in part by a grant from XYZ.

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

²Footnotes appear at the bottom of the column.