Preparing Your Article or Abstract

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Figure 1: Drumheller Fountain, The University of Washington, Seattle WA.

ABSTRACT

This formatted document contains examples of many of the elements of an abstract or technical paper, including multiple authors, CCS concepts and keywords, sections and subsections, formulae, tables, figures, enumeration environments, and citations and references.

Of particular note to authors preparing work for publication at an event sponsored by ACM SIGGRAPH are the citations and references; although the ACM article default is for numbered citations and references, we use the "author year" citation and reference style.

CCS CONCEPTS

• **Computing methodologies** → **Rendering**; **Ray tracing**;

KEYWORDS

ray tracing, global illumination, octrees, quadtrees

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1 INTRODUCTION

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Fusce auctor accumsan nulla, vitae pharetra ipsum sagittis sit amet. [Landis 2002; Park et al. 2006] Donec ac metus consectetur, venenatis magna sit amet, viverra sapien. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos himenaeos. Phasellus eleifend sem sit amet arcu congue tempus. Proin at iaculis orci. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Orci varius natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. [Pellacini et al. 2005] Etiam feugiat dui sit amet ante pellentesque, sed malesuada libero ornare. Curabitur tempor ligula leo, in feugiat urna ornare luctus. Fusce quis metus sit amet neque sagittis elementum. Quisque facilisis quam quis tortor volutpat, et sodales urna efficitur.

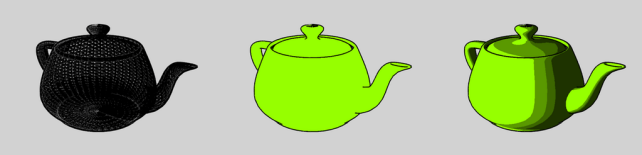

Figure 2: Cel-shaded teapots. Image by Nicolas Sourd [CC-BY-SA-3.0 (http://creativecommons.org/licenses/by-sa/3.0/)], via Wikimedia Commons. (https://goo.gl/5e6tNk).

Duis sagittis massa odio, consequat ornare mauris imperdiet blandit. [Levoy et al. 2000] Donec vel pulvinar nisl. Nam pretium vitae risus a consectetur. [Fedkiw et al. 2001; Jobson et al. 1995; Sako and Fujimura 2000] Vestibulum efficitur auctor mauris. Vestibulum nec orci suscipit, faucibus mauris vel, elementum dolor. Phasellus ornare est id commodo cursus. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec iaculis enim urna, vitae tincidunt est dictum id. Suspendisse lobortis justo id enim ornare euismod. Fusce quis turpis rhoncus, laoreet lorem eu, porttitor enim. [Kartch 2000; Parke and Waters 1996; Yee 2000] Etiam eget tempus velit. Duis iaculis id eros et mollis. Pellentesque non magna a massa rhoncus gravida id eget ex. Donec magna risus, posuere eu velit sit amet, tincidunt cursus leo. Curabitur non ultricies turpis, at sodales sapien.

2 EXPOSITION

Nullam mollis in lectus vitae tempus. Nam pellentesque tincidunt leo id dapibus. Etiam in euismod diam. [Agarwal and Mierle 2010; Asaro 1976] Phasellus feugiat ante et dui rhoncus, at dictum elit vehicula. Nunc ut finibus neque. Sed vehicula tristique - as shown in Table 1 - odio at interdum. Morbi ex lectus, porttitor vel ipsum id, scelerisque facilisis metus. Cras orci sapien, luctus in eros in, suscipit rhoncus neque. Duis pharetra elit vitae sagittis maximus. Curabitur fermentum justo massa, sed placerat odio aliquam quis. Nam facilisis hendrerit ante eget maximus. Nulla et porttitor nibh, et malesuada turpis. Suspendisse potenti. Nunc ultricies suscipit quam, eget ultrices nisi viverra vitae.

Table 1: Soccer, or football?

Team	P	W	D	L	F	A	Pts
Manchester United	6	4	0	2	10	5	12
Celtic	6	3	0	3	8	9	9
Benfica	6	2	1	3	7	8	7
FC Copenhagen	6	2	1	3	5	8	7

Aliquam sed vehicula neque. Praesent placerat, nisi sit amet condimentum porta, justo tellus dictum eros, quis vestibulum erat massa id sapien. Vestibulum euismod purus dolor, ornare consectetur quam egestas volutpat. Curabitur sollicitudin convallis purus ultrices facilisis. Pellentesque sollicitudin maximus orci quis rutrum. Phasellus a mauris maximus sem mollis sagittis. Vivamus sagittis faucibus tincidunt. Vivamus vel suscipit leo.

2.0.1 Participants. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Vivamus maximus a

Figure 3: 1907 Franklin Model D roadster. Photograph by Harris & Ewing, Inc. [Public domain], via Wikimedia Commons. (https://goo.gl/VLCRBB).

lectus sed dictum. Curabitur pulvinar lectus nec magna molestie consequat. Donec ligula urna, scelerisque et felis sed, euismod feugiat sem. (See equation 1.) Donec urna libero, auctor sit amet sem id, malesuada tempor risus. Morbi malesuada lobortis consequat. Aliquam lacinia quam ac tristique sodales. Class aptent taciti sociosqu ad

$$P(t) = \frac{b^{\frac{t+1}{T+1}} - b^{\frac{t}{T+1}}}{b-1}, \tag{1}$$

where $t = 0, \ldots, T$, and b is a number greater than 1, litora torquent per conubia nostra, per inceptos himenaeos.

$$L_o(x, \omega_o, \lambda, t) = L_e(x, \omega_o, \lambda, t) + \int_\Omega f_r(x, \omega_i, \omega_o, \lambda, t) L_i(x, \omega_i, \lambda, t)(\omega_i \cdot n) \mathrm{d}\omega_i \tag{2}$$

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Fusce auctor accumsan nulla, vitae pharetra ipsum sagittis sit amet. Donec ac metus consectetur, venenatis magna sit amet, viverra sapien. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos himenaeos. Phasellus eleifend sem sit amet arcu congue tempus. Proin at iaculis orci. (See equation 2.) Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Orci varius natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Etiam feugiat dui sit amet ante pellentesque, sed malesuada libero ornare. Curabitur tempor ligula leo, in feugiat urna ornare luctus. Fusce quis metus sit amet neque sagittis elementum. Quisque facilisis quam quis tortor volutpat, et sodales urna efficitur.

3 CONCLUSIONS AND FUTURE WORK

Nullam vulputate enim ut tortor mollis pharetra. Cras pellentesque sem a accumsan malesuada. Donec at massa nisl. Sed malesuada felis id nisl maximus efficitur. In pretium metus non faucibus pulvinar. Sed pulvinar elit ultrices mauris vehicula, id ultricies purus

finibus. Fusce tempus elit molestie, consequat ipsum eget, iaculis nibh. Cras tincidunt, orci in lacinia tempus, mauris leo finibus orci, vitae dignissim dui risus et odio. Sed commodo ultricies nulla, et varius velit aliquam quis. Sed efficitur, ex non facilisis dignissim, lacus orci accumsan massa, dictum facilisis arcu lacus ac leo. Sed quis tellus dictum massa egestas dapibus vel et justo. Nulla euismod lectus ut purus hendrerit porttitor. Suspendisse quis dui ligula. Proin non porta libero. Maecenas vel feugiat urna.

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REFERENCES

Sameer Agarwal and Keir Mierle. 2010. Ceres Solver. http://ceres-solver.org. (2010).

John Asaro. 1976. Planes of the Head. http://www.planesofthehead.com/. (1976).

Ronald Fedkiw, Jos Stam, and Henrik Wann Jensen. 2001. Visual Simulation of Smoke. In *Proceedings of SIGGRAPH 2001 (Computer Graphics Proceedings, Annual Conference Series)*, Eugene Fiume (Ed.). ACM, ACM Press / ACM SIGGRAPH, 15–22.

Daniel J Jobson, Zia-ur Rahman, and Glenn A Woodell. 1995. Retinex image processing: Improved fidelity to direct visual observation. In *Proceedings of the IS&T Fourth Color Imaging Conference: Color Science, Systems, and Applications*, Vol. 4. The Society for Imaging Science and Technology, 124–125.

Daniel Kartch. 2000. *Efficient Rendering and Compression for Full-Parallax Computer-Generated Holographic Stereograms.* Ph.D. Dissertation. Cornell University.

Hayden Landis. 2002. Production-Ready Global Illumination. ACM SIGGRAPH 2002 Course #16 Notes. (July 2002).

Marc Levoy, Kari Pulli, Brian Curless, Szymon Rusinkiewicz, David Koller, Lucas Pereira, Matt Ginzton, Sean Anderson, James Davis, Jeremy Ginsberg, Jonathan Shade, and Duane Fulk. 2000. The Digital Michelangelo Project. In *Proceedings of SIGGRAPH 2000 (Computer Graphics Proceedings, Annual Conference Series)*, Kurt Akeley (Ed.). ACM, ACM Press / ACM SIGGRAPH, New York, 131–144.

S. W. Park, L. Linsen, O. Kreylos, J. D. Owens, and B. Hamann. 2006. Discrete Sibson interpolation. *IEEE Transactions on Visualization and Computer Graphics* 12, 2 (March/April 2006), 243–253.

Frederic I. Parke and Keith Waters. 1996. *Computer Facial Animation.* A. K. Peters.

Fabio Pellacini, Kiril Vidimče, Aaron Lefohn, Alex Mohr, Mark Leone, and John Warren. 2005. Lpics: a Hybrid Hardware-Accelerated Relighting Engine for Computer Cinematography. *ACM Transactions on Graphics* 24, 3 (Aug. 2005), 464–470. https://doi.org/10.1145/1073204.1073214

Yusaku Sako and Kikuo Fujimura. 2000. Shape Similarity by Homotropic Deformation. *The Visual Computer* 16, 1 (2000), 47–61.

Yang Li Hector Yee. 2000. *Spatiotemporal sensitivity and visual attention for efficient rendering of dynamic environments.* Master's thesis. Cornell University.