Formatting Submissions for a USENIX Conference: An (Incomplete) Example XeLaTeX

Ruohong Jiao
First Institution

Second Name
Second Institution

Third Name
Third Institution

Fourth Name
Fourth Institution

Fifth Name
Fifth Institution

Abstract

Your abstract text goes here. Just a few facts. Whet our appetites. Not more than 200 words, if possible, and preferably closer to 150.

1 Introduction

Some of the **greatest**
discoveries in science
were made by ***accident***.

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

2 Footnotes, Verbatim, and Citations

Footnotes should be places after punctuation characters, without any spaces between said characters and footnotes, like so.[1] And some embedded literal code may look as follows.

```
int main(int argc, char *argv[])
{
    return 0;
}
```

Now we're going to cite somebody. Watch for the cite tag. Here it comes. Arpachi-Dusseau and Arpachi-Dusseau co-authored an excellent OS book, which is also really funny [1], and Waldspurger got into the SIGOPS hall-of-fame due to his seminal paper about resource management in the ESX hypervisor [2].

The tilde character (~) in the tex source means a non-breaking space. This way, your reference will always be attached to the word that preceded it, instead of going to the next line.

And the 'cite' package sorts your citations by their numerical order of the corresponding references at the end of the paper, ridding you from the need to notice that, e.g, "Waldspurger" appears after "Arpachi-Dusseau" when sorting references alphabetically [1, 2].

It'd be nice and thoughtful of you to include a suitable link in each and every bibtex entry that you use in your submission, to allow reviewers (and other readers) to easily get to the cited work, as is done in all entries found in the References section of this document.

Now we're going take a look at Section 3, but not before observing that refs to sections and citations and such are colored and clickable in the PDF because of the packages we've included.

[1] Remember that USENIX format stopped using endnotes and is now using regular footnotes.

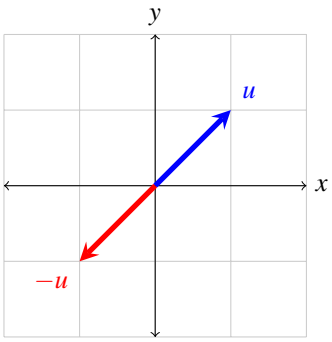
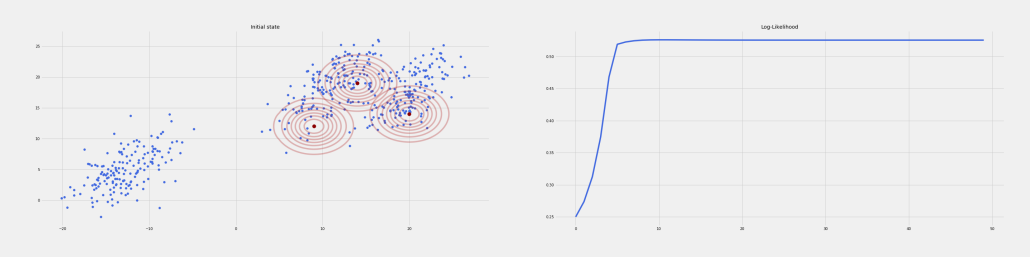


Figure 1: Text size inside figure should be as big as caption's text. Text size inside figure should be as big as caption's text. Text size inside figure should be as big as caption's text. Text size inside figure should be as big as caption's text. Text size inside figure should be as big as caption's text.

3 Floating Figures and Lists



(a) GMM init (b) GMM likehood

(c) GMM ans

Figure 2: GMM

Here's a typical reference to a floating figure: Figure 1. Floats should usually be placed where latex wants then. Figure1 is centered, and has a caption that instructs you to make sure that the size of the text within the figures that you use is as big as (or bigger than) the size of the text in the caption of the figures. Please do. Really.

In our case, we've explicitly drawn the figure inlined in latex, to allow this tex file to cleanly compile. But usually, your figures will reside in some file.pdf, and you'd include them in your document with, say, \includegraphics.

Lists are sometimes quite handy. If you want to itemize things, feel free:

fread a function that reads from a `stream` into the array `ptr` at most `nobj` objects of size `size`, returning returns the number of objects read.

Fred a person's name, e.g., there once was a dude named Fred who separated usenix.sty from this file to allow for easy inclusion.

The noindent at the start of this paragraph in its tex version makes it clear that it's a continuation of the preceding paragraph, as opposed to a new paragraph in its own right.

3.1 LaTeX-ing Your TeX File

People often use `pdflatex` these days for creating pdf-s from tex files via the shell. And `bibtex`, of course. Works for us.

Acknowledgments

The USENIX latex style is old and very tired, which is why there's no \acks command for you to use when acknowledging. Sorry.

Availability

USENIX program committees give extra points to submissions that are backed by artifacts that are publicly available. If you made your code or data available, it's worth mentioning this fact in a dedicated section.

Appendix A Some Codes

some text

Appendix B Codes

```
#%%
import numpy as np
import scipy.stats as st

import matplotlib.pyplot as plt
import seaborn as sns

sns.set_palette("Paired")
```

```
import numpy as np

def incmatrix(genl1,genl2):
    m = len(genl1)
    n = len(genl2)
    M = None #to become the incidence matrix
    VT = np.zeros((n*m,1), int)  #dummy variable

    #compute the bitwise xor matrix
    M1 = bitxormatrix(genl1)
    M2 = np.triu(bitxormatrix(genl2),1)

    for i in range(m-1):
        for j in range(i+1, m):
            [r,c] = np.where(M2 == M1[i,j])
            for k in range(len(r)):
                VT[(i)*n + r[k]] = 1;
                VT[(i)*n + c[k]] = 1;
                VT[(j)*n + r[k]] = 1;
                VT[(j)*n + c[k]] = 1;

                if M is None:
                    M = np.copy(VT)
                else:
                    M = np.concatenate((M, VT), 1)
```

```
26
27                  VT = np.zeros((n*m,1), int)
28
29      return M
```

Appendix C Color Palettes

C.1 Single Color

3b0084 7474e0 191035

C.2 Multi-Color

1. 005e9a ff8400 fed9d9
2. 334854 e04463 efecea f99055 e56cd6
3. ed1010 ff5151 ffa0a0 be0d71 0a8d8e
4. d01114 f9b700 f0e1b8
5. 427dcd c0b9af fcdac6
6. 005e9a ff8400 fed9d9
7. e8643c d4c045 98ccdd
8. 427dcd c0b9af fcdac6
9. ab7e49 0c3f5a f0cfa8 ab5f49 347954
10. f5502f 0382fe fbcb00
11. 1c37ee ff4400 d8d0cd
12. 567990 4277bb bec4cf
13. cf211e 464646 dddddd f99055 e56cd6
14. f9b70e 244d67 f1d796 f98c0e 666ab7
15. ab7e49 0c3f5a f0cfa8 ab5f49 347954
16. ff3366 0c3f5a 45e1d3 20a4f3 979797
17. 334854 e04463 efecea 328080 9fc84e
18. d01114 f9b700 f0e1b8
19. 737495 f17d81 e7efde d6bd9d 677b89
20. 334854 e04463 efecea 20a4f3 979797
21. cf211e 464646 dddddd
22. f9b70e 244d67 f1d796 f98c0e 666ab7
23. 5749d9 ae6bdf 2eecf8 fff33b e968bc
24. 86bcd8 c1bd97 a8c1ce 7d637e 99ad88
25. 334854 e04463 efecea
26. aced15 a1918e b4adea bebbbb ef798a
27. 616161 1dc2e5 aeebdb ffab1a ff571a
28. 4e828b 71aaa7 b6d8d5
29. 5749d9 ae6bdf 2eecf8

30. cf211e 464646 dddddd 328080 9fc84e
31. ff3366 0c3f5a 45e1d3 20a4f3 979797
32. 00adb5 0c3f5a f8b500 ff0700 979797
33. 567990 4277bb bec4cf 94ae89 896978
34. f9b70e 244d67 f1d796 ff0700 979797
35. 567990 4277bb bec4cf 94ae89 896978
36. 00adb5 0c3f5a f8b500 ff0700 979797
37. 00adb5 0c3f5a f8b500 ff0700 979797
38. ebb200 a5a5a5 67c394 826c7f eba1a1

1. 090002 2c0403 841b13 b5271c e33426 e85e59 eea4a3
2. 62d5c4 eeb0bc
3. 040653 ea3624
4. f96167 fce77d
5. f9d342 292826
6. df678c 3d155f
7. ccf381 4831d4
8. 4a274f f0a07c
9. 2b3252 ef5455 fad744
10. fff748 3c1a5b
11. 2f3c7e fbeaeb
12. ec4d37 1d1b1b
13. 8bd8bd 243665
14. 141a46 ec8b5e
15. ffffff 8aaae5
16. 295f2d ffe67c
17. f4a950 161b21
18. eb2188 080a52
19. 4a171e e2a144
20. d2302c f7f7f9
21. 358597 f4a896
22. e7d045 a04ef6
23. 262223 ddc6b6
24. f4efea 7d141d ff1e27
25. aa96da c5fad5 ffffd2
26. f7f7f7 006838 96cf24
27. 234e70 fbf8be
28. ffe8f5 8000ff de00ff

29. 191919 b88746 fdf5a6
30. cc313d f7c5cc
31. e2d3f4 013dc4
32. 533549 f6b042 f9ed4e
33. 99f443 ec449b
34. 050505 616161 e6e7e8
35. ee4e34 fcedda
36. 072c50 b88746 fdf5a6
37. 96351e dbb98f
38. e2d1f9 317773

1. 344150 4fa9d2 f0dd5d 81bf97 df6756
2. 4a154b 64c3eb 5bb381 e3b34c ce375c
3. 250c77 ed642b ffffff
4. ffe01b 000000
5. d8318a f26c7d e37439
6. 4daaa7 3f8f8b 333333
7. 3d8c95 225675 e6873c
8. 8fd974 7ac968 5bb462 4ca456 394141
9. d9302c ec692d eaa23f
10. fcb711 f37021 cc004c 6460aa 0089d0 0db14b
11. ff6e0c f20c90
12. 83d1c4 78517c f17950
13. 0046bf feef22 ffffff
14. f26764 ffffff
15. 687818 ffd58e 3c1605 ffffff
16. 54afbc ffb449 fe5c36 434343
17. 00a9a4 f9b117 f6911b
18. 072f54 fbc108
19. ff6600 000000 ffffff
20. fcd206 f18121 7582c0 b2aa7e d5df37 58b1ce 76c065 000000
21. f82b60 fcb401 19c0ff
22. 70c19a 939393
23. 7894ff ff4f2d ff8b74 ff89ff e6ebff
24. f224f2 ffffff
25. ff6d56 fa9233 ffbe0a 8ac539 57b7dd a98cbc
26. cfb08d ffffff
27. ff3d57 ffca00 00d748 434343

28. 2d2d2b ec9347
29. 1c4481 60688d 5b8ba1 b4d5de c7233b e47a2e f28d1b
30. 1dcdfe 21d0b2 34f5c5 2f455c
31. ee9142 265b94
32. e27043 ffffff
33. 80cfd5 007d98 6dc3cc ffffff
34. 91c11e 659a41 ffffff
35. f5b4a7 000000
36. c9d85b e1251a ffcd2e 28a9e0
37. 00bcb0 5630ff
38. 191035 ffffff
39. 93c244 3982d8 7da739
40. d94d5c ebc354
41. 4ca9ee 238878 5ecd81 b2b7bb
42. 263571 feda14
43. 000000 1a1a1a f2cf19 ffffff
44. da868a 417584
45. 39827e ec7345
46. f84d08 4e1d07 fdee50
47. 293345 f95665 f95f7f fb7e51 fda022
48. 52b1b6 d5d156 f4cd5c b8428d d85f9a e17a8c de713e d23d46 c83b52 404040
49. 21455b f9da9f 5ec3f7 adaed4 aee1fb f4c7b5 c2e2c6 b5f3d4 94a2f8 bcdf5f
50. 4297c8 0e3692

1. f4b41a 143d59
2. 210070 213970
3. ffe042 e71989
4. ffa781 5b0e2d
5. 00e1d9 5e001f
6. 060d4d f49f1c
7. 0e387a 9fafca
8. a9dce3 7689de
9. fcc729 337def
10. efc8b1 514644
11. 5e057e c299d0
12. 551fbd a2eacb
13. ffb8b1 993441

14. bdfff6 e23c52
15. 390879 b8df10
16. a3842c 575200
17. 008970 99eedf
18. efc8b1 8a6626
19. 0f4d19 6fc27c
20. e54b22 abd1ff
21. 0f149a fd9b4d
22. bfbf14 0029a5
23. f6b60d 372800
24. 4955fd a5e300
25. f2bc94 30110d 722620
26. 6dd47e ffd55a f4af1b
27. 104c91 efc9af 1f8ac0
28. 283350 f93800 ffb500
29. f9858b ed335f 761137
30. f2bc94 00154f f4af1b
31. 4b3d8f 37a987 b7b1d2
32. 455073 c0904d 6077c0
33. 4d3227 ebc999 cd7700
34. 3d4c41 999999 e6e6e6
35. cedef0 9d9ad9 6b9bd1
36. 7b3433 c86797 e9bbba
37. ebebde 777764 4f4747
38. 64395f c075b7 6caca0
39. 388d5d d6a34a 5a431b
40. 241f1c 937047 e7dac7
41. 404040 a0b6f7 f2f261
42. 1d5c96 7db0de 12395d

1. e8ebc2 d4a656 e16e79 364eb9 228fcf
2. fbf4b5 fff9d4 c1a87d d3a13b b58d3d
3. e3dbd8 a6a29e 583629 7e4d4e ef5c4e
4. bd3b1b d8a800 b9d870 b6c61a 006344
5. fa1e44 fec925 c9e3db 5ab190 00b4eb
6. ec380b f05f3b a5c5c3 429f9e 007872
7. 231f20 ffffff ffc602 f2c9a0 f2b54a
8. ee801e e75b10 000000 d6d1ce e3e0dd

9. cb534f c48f22 53a586 4faed9 6d78bf
10. ffce1e 0086ff f2f3f2 feb607 1592d8
11. 2b3990 c49a6c f2f3f2 374396 5970af
12. b0d5d0 6fc0ab ffdee5 e2b1cd fee8db
13. 84cfcb ffed90 efe1d4 f6e6e7 f2f7fb
14. dc4e76 cc4b93 a946be 5c4ae4 35375a
15. 5cd89f ff5c3e ffd36e 005d68 545454
16. 88d840 67b826 247209 dad8db 2a351f
17. e86835 f64e00 cc4201 e0e2ec b4b3a9
18. ff5851 f3c130 414a6b 1c1b20 b49a85
19. f76c6c f99797 23305e a8d0e6 39424e
20. 007ee5 ffffff 7b8994 47525d 3d464d
21. 3cba54 f4c20d db3236 4885ed bdbdbd
22. 161626 3b3a4a 1ebad6 c0c0c8 f2f2f4
23. 080501 d48b00 dba401 efd319 dddcdd
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26. 000000 ed5338 321119 86754e 949091
27. 080808 f7d624 fbc702 d5cabb 308eab
28. ffffff e5e5e5 b56a16 7a392c 161c14
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30. ff5a5f 00a699 fc642d 484848 767676
31. e0798c 65365a da8886 cfc4c4 dfd7ca

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[1] Remzi H. Arpaci-Dusseau and Arpaci-Dusseau Andrea C. *Operating Systems: Three Easy Pieces*. Arpaci-Dusseau Books, LLC, 1.00 edition, 2015. http://pages.cs.wisc.edu/~remzi/OSTEP/.

[2] Carl A. Waldspurger. Memory resource management in VMware ESX server. In *USENIX Symposium on Operating System Design and Implementation (OSDI)*, pages 181–194, 2002. https://www.usenix.org/legacy/event/osdi02/tech/waldspurger/waldspurger.pdf.