

Sample.tex for the CSM Style File csm.sty

A convenient template for typesetting articles for IEEE CSM

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INTRODUCTION

The IEEE Control Systems Magazine is not a journal in the usual sense. In fact, one of the primary goals of the *Magazine* is to make developments in control technology accessible to the widest possible audience. Therefore, the standards for quality and style of exposition are more stringent than most journals.

When you prepare your paper for submission, you must carefully read and follow the IEEE CSM Author's Guide [1]. You can download the latest version of this document from the IEEE CSM web page. The Author's Guide is updated periodically.

In addition, we suggest that you use the LATEX document you are reading to ensure that your submitted paper meets the specifications outlined in the Author's Guide for typesetting.

Line Spacing

When you use the IEEE CSM template, you find that the line spacings are set to be double spaced with an extra blank line between paragraphs. This spacing helps the editors to read and copyedit your paper.

The page limit for IEEE CSM submission is 30 pages of text. However, longer survey and tutorial papers may be considered. Please contact the Editor-in-Chief for more information.

LATEX TEMPLATE

The `csm.sty` style file depends on the IEEE Transactions Class file, `IEEEtran.cls` by Michael Shell [2]. A copy can be found on CTAN [3]. The latest version, as of this document, is version V1.6b.

Use the `csm.sty` [4] package file to fix up a few formatting issues. After you “begin the document” and “make the title”, use the `CSMsetup` command to finish fixing the page style.

FIGURE CAPTION STYLE

IEEE CSM has a mandatory uniform style for every figure and table caption. This style is intended to enhance the quality and appearance of articles. Please read these instructions carefully to facilitate the publication of your article.

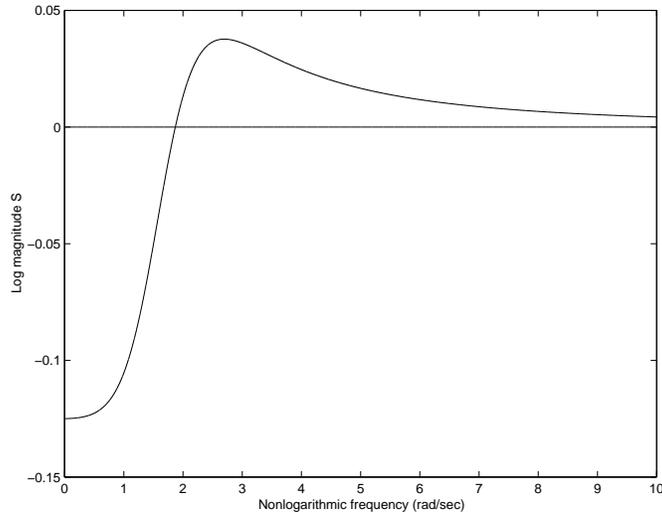


Figure 1. Title of the plot, not a sentence. Next, a sentence is given here to indicate the points that the figure is meant to highlight. Finally, you can include additional sentences to provide more detail about the meaning and importance of the figure. These sentences can greatly enhance the appeal of your article.

Please invest care and effort in producing interesting and informative figure captions. These captions can greatly enhance your paper and the overall quality of IEEE CSM.

You may put all of your figures and tables at the end of your paper if you wish. If your paper is accepted, IEEE determines the correct placement of each figure and table.

Please note that Figure 1 does not have a caption or label along the top. The axes are labeled, and a legend is allowed if needed. Multiple curves can be distinguished by color or dashes and dots. The caption below the figure includes a title and one or more sentences of pertinent information. Figure 2 is an illustrative example in the proper style.

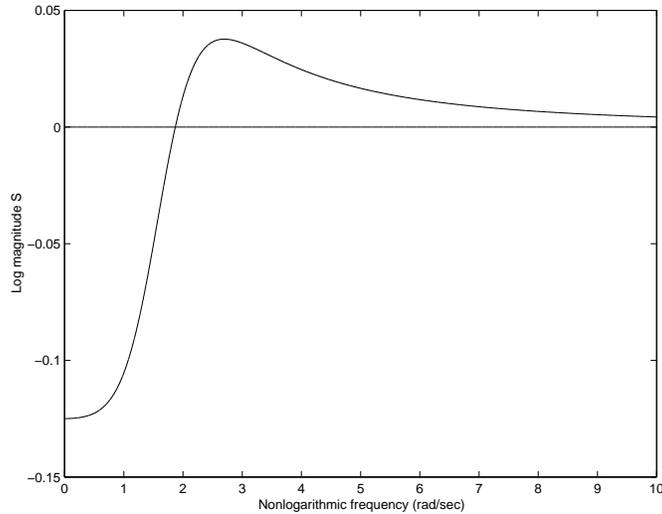


Figure 2. Bode plot of the sensitivity function. The negative and positive portions of the curve suggest that the benefits of feedback are accompanied by a cost of feedback. Analytical results show that these tradeoffs are inevitable for linear time-invariant systems whose relative degree is at least 2. Analogous results for multivariable and time-delay systems have been developed, but are not so well known.

SECTION HEADING, LEVEL A

The style file automatically provides the correct style for section, subsection, subsubsection, and subsubsubsection headings. Four levels of headings can be used. Note that the level A heading is bold and not italic with all caps.

Subsection Heading, Level B

The level B heading is bold and not italic with initial caps.

Subsubsection Heading, Level C

The level C heading is bold and italic with initial caps.

Subsubsubsection Heading, Level D

The level D heading is not bold and italic with initial caps.

CONCLUSION

We hope that these files are useful to you in preparing your submission for IEEE CSM. We again remind you to carefully study the IEEE CSM Author's Guide. If you have any questions, do not hesitate to contact the Editor-in-Chief Dennis S. Bernstein at dsbaero@umich.edu.

REFERENCES

- [1] D.S. Bernstein. "CSM Author Guide." Available online: <http://www.ieeecss.org/PAB/csm/files/CSMAuthorGuide.pdf>
- [2] M. Shell. "IEEE Transactions class file." Available online: <http://www.ctan.org/tex-archive/macros/latex/contrib/IEEEtran/>
- [3] "The Comprehensive T_EX Archive Network." Available online: <http://www.ctan.org/>
- [4] K.H. Lundberg. "LaTeX Style File for IEEE Control Systems Magazine." Available online: <http://www.mit.edu/klund/www/csm/>

AUTHOR'S BIO

Kent H. Lundberg is the Associate Editor for History of IEEE Control Systems Magazine. He consults for several industry corporations and organizations and collects old textbooks on analog computing, radar, nuclear energy, and control.