Tips for Using LATEX

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Abstract

This document provides a continuously-updated list of assorted tips and lessons learned from my LATEX experience.

1 General

- All mathematical operators should be non-italicized. That is, our code should produce $\max_x u(x)$, not $\max_x u(x)$. You've probably noticed that WinEdt has available for you via the "Functions" tab a number of built in operators for your use. Operators not listed there should be defined in the preamble with a DeclareMathOperator command.
- Don't try to adjust vertical spacings using the vspace or vskip commands. The particular template you are using should be allowed to space objects as it sees fit. (The only exception to this rule is if you are creating your own template.)
- Include equations with the text for the same paragraph. Only include a blank line if there is a new paragraph
- Don't use the double quote character (") for *anything* other than $BiBT_EX$ entries. For quotation purposes, always use (one or more) left quote characters (') or right quote characters (').
- Have a style file with command shortcuts that you commonly use. (See the MS thesis or PhD dissertation styles for an example of this.)
- For practice, grab (or download) a mathematically intensive *IEEE Transactions on Communications* article and try to reproduce what you see.

2 Bibliographies

• Use BIBT_FX for your bibliography needs. It will save you *lots* of time in the end.

- When creating a $BiBT_EX$ entry, be sure to test it in your document immediately to ensure proper formatting.
- Use the IEEEtran bibliography style so that your references are always format as in IEEE publications.
- Use the journal strings offered in the IEEEtran bibliography style and use the standard $BiBT_EX$ three letter codes when entering months. (See IEEEtran_bst_HOWTO.pdf for details.)
- As with the journal strings, you may find it helpful to define strings for commonly-occurring conferences (INFOCOM, ICC, etc.). This can help in maintaining consistency in $BiBT_EX$ entries.

3 Graphics

- Use the "PPT 2 eps" conversion method with drawn figures
- MATLAB figures should be directly exported to .eps format