

IEEE-Format Report Writing Workshop

By the CSUN IEEE Student Branch

Brad Jackson, Ph.D.
bradley.jackson@csun.edu

March 8, 2018

IEEE-Format Report Writing Workshop

- Welcome!
- Purpose of this workshop

LaTeX

- What is LaTeX?
 - Pronounced “Lay-tech”
 - A typesetting system commonly used for producing scientific and technical documents
 - Enables authors to create documents with very high typographical quality
 - Uses the TeX typesetting engine

LaTeX and TeX

- What's the difference between LaTeX and TeX?
 - TeX is a typesetting system
 - It provides many commands which allow you to specify the format of your document with great detail (e.g. font styles, spacings, kerning, etc.)
 - LaTeX is a set of macros built on top of TeX
 - Shifts the focus from the formatting of the document to the content of your document

LaTeX

- Reasons you might want to use LaTeX:
 - Writing a large technical document
 - Very high quality output
 - Easy to type mathematical formulas
 - Portability (Windows, Unix, Mac)
 - Most technical journals/conferences have LaTeX templates
 - Simplifies formatting, numbering, referencing, etc.
- Reasons you might not want to use LaTeX:
 - Significant learning curve
- Learning LaTeX is an investment that will eventually result in time savings if you are frequently writing technical documents

How to Start Using LaTeX with the IEEE Template

Windows

1. Go to <http://miktex.org>
2. Download MiKTeX
3. Run MiKTeX Installer
 - Choose to install missing packages automatically
4. Download IEEE template
<http://ieeauthorcenter.ieee.org/create-your-ieee-article/use-authoring-tools-and-ieee-article-templates/ieee-article-templates/>
5. Open .tex file in TeXworks (included with MikTeX)
6. Write report and compile

How to Start Using LaTeX with the IEEE Template

Mac

1. Go to <http://www.tug.org/mactex/>
2. Download MacTeX
3. Run MacTeX Installer
4. Download IEEE template
<http://ieeauthorcenter.ieee.org/create-your-ieee-article/use-authoring-tools-and-ieee-article-templates/ieee-article-templates/>
5. Open .tex file in TeXworks (included with MacTeX)
6. Write report and compile