

LaTeX Workshop

16 November 2004, 1.00-6.00pm
Percy Baxter Learning Centre



About LaTeX

LaTeX is a document preparation tool for producing professional looking technical conference/journal papers and reports, books, and theses.

Purpose of the workshop

Just started your degree? You'll get a thorough introduction, so you'll be making great looking papers and reports from the start of your degree.

Midway through? Don't tear your hair out writing your thesis in Microsoft Word. With this workshop you'll learn how to avoid the heartache and breeze through your write-up.

Already know some LaTeX? We'll help you move to the next level – all the stuff you wished you could do but couldn't work out how to.

Why is this workshop useful for you?

- You need to write technical papers – and your thesis.
- Your papers need to have maths, equations, formulae...
- You need to reference other peoples' papers, have a numbered bibliography, maintain a database of the papers you've read, make indexes, tables of contents, etc.

LaTeX can make all of these things very easy for you. So you can focus on the most important thing – the content.

Registration

Registration is essential for attendance. The cost is \$8 for University of Melbourne IEEE student members, \$15 for non-member students of the University of Melbourne, and \$20 for others.

To register, visit our website before 12 November 2004 to guarantee your place:

<http://unimelb.ieeevic.org/events/LaTeX>

What you will learn

1. Typesetting Text
 - Concept of the preamble
 - Sections/Paragraphs (Justification)
 - Headers/footers
 - Enumerations/Lists
 - Hyphenation
 - Escape and special characters
 - Verbatim
2. Typesetting Mathematical Formulae
 - Inline and non-inline
 - Numbering and references
 - Arrays & multi-line equations
 - Matrices
 - Alignment
3. Floating structures (figures, tables, etc)
 - Graphics (images)
 - Formats & how to generate them
 - Resizing and rotating
 - Tables
 - Captions, Location
 - Subfigures
4. BibTeX (for Bibliographies and Citations)
 - Introduction to BibTeX
 - Format of the .bib file
 - Creating new references
 - Bibliography styles
 - Insert citations into document
5. Customizing LaTeX
 - New environments/macros
 - IEEEtrans specifics
 - Class options
 - Preamble
 - `\IEEEeqnarray`
6. Debugging your LaTeX code
 - Coding style
 - Errors
 - Warnings
 - Bad Boxes

This is a hands-on workshop! Each of the speakers below will take you through the topics above, with plenty of exercises interleaved throughout for you to practice what is taught.

Besides receiving a copy of all the notes, we will have a resource CD-ROM available for a small duplication fee, containing loads of great free LaTeX software and documentation!

Speaker biographies



Laurence Park is a research fellow in the Department of Computer Science and Software Engineering. He has had several years of experience with LaTeX, having written many papers in addition to his PhD thesis.



John Papandriopoulos is a PhD candidate in CUBIN. He's had over two years experience with LaTeX, typesetting both IEEE conference and journal papers.



Boon Ng is a PhD candidate in CUBIN having had over 18 months experience with LaTeX for papers and technical reports. He'll give you his perspective on how you can compress that learning curve.



Thaya Thanabalasingham is a PhD candidate in CUBIN and has demonstrated ability in creating complex mathematical documents in LaTeX with ease and agility.