

# L<sup>A</sup>T<sub>E</sub>X Guidelines for Simple, Two-Column Papers

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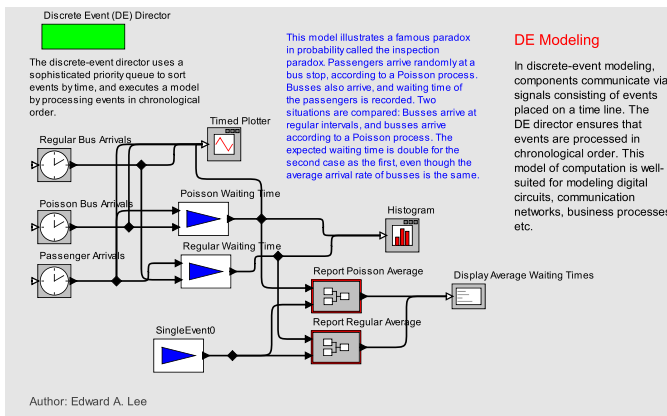
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## Abstract

*This is a simple sample of a document created using L<sup>A</sup>T<sub>E</sub>X (specifically pdf<sub>l</sub>atex) that includes a figure from the Vergil visual editor for Ptolemy II that was created by printing to the Acrobat Distiller to get a PDF file. It also illustrates a simple two-column conference paper style, and use of bibtex to handle bibliographies.*

## 1 Using L<sup>A</sup>T<sub>E</sub>X with PDF Figures

This is a sample document for use with pdf<sub>l</sub>atex, which is a program that is included with the MikTeX distribution



**Figure 1.** Figure caption. To get a figure to span two columns, use the environment figure\* rather than figure.

that directly produces PDF files from L<sup>A</sup>T<sub>E</sub>X sources. To run L<sup>A</sup>T<sub>E</sub>X on this file, you need the following files:

1. templatePDF.tex (this file)
2. figure.pdf (the figure file)
3. simpleConference.sty (style file)
4. refs.bib (bibliography file)

To create a PDF file, execute the following commands:

1. pdf<sub>l</sub>atex templatePDF
2. bib<sub>l</sub>atex templatePDF
3. pdf<sub>l</sub>atex templatePDF
4. pdf<sub>l</sub>atex templatePDF

Yes (strangely) it is necessary to run pdf<sub>l</sub>atex three times. The result will be a PDF file (plus several other files that L<sup>A</sup>T<sub>E</sub>X produces). You will need a mechanism, of course, for executing commands on the command line. If you are using Windows, I recommend installing Cygwin and using its bash shell.

## 2 How to Include Vergil Diagrams as Figures

Suppose you wish to include a figure, like that in figure 1. The simplest mechanism is to install Adobe Acrobat, which includes a “printer” called “Acrobat Distiller.” Printing to this printer creates a PDF file, which can be included in a document as shown here. To include Ptolemy II models [1], just print to the distiller from within Vergil and reference the PDF file in your L<sup>A</sup>T<sub>E</sub>X document.

There is a bit more work to do, however. The file that is produced by the distiller represents a complete page, not the individual figure. You can open it in using Acrobat (version 5.0 or later), and select Document → Crop Pages from the menu. In the resulting dialog, check “Remove White Margins.” Save the modified PDF file in a file and then reference it in the  $\LaTeX$  file as shown in this example.

An alternative is to generate EPS (encapsulated postscript), but the process is much more complex and fragile. I recommend using pdflatex and Adobe Acrobat.

## References

- [1] C. Brooks, E. A. Lee, X. Liu, S. Neuendorffer, Y. Zhao, and H. Zheng. Heterogeneous concurrent modeling and design in java. Technical Report Technical Memorandum UCB/ERL M04/27, University of California, July 29 2004.