are listed in alphabetical order, according the the first author's last name, and are sequentially numbered. Please utilize this style. We have a BibTEX style file, for those who wish to use it. It is the file entcs.bst which is included in

- Authors' names should be listed in alphabetical order, with the first author's last name being the first listing, followed by the author's initials or first name, and with the other authors names listed as first name, last name.
- Titles of articles in journals should be in *emphasized* type.

this package. The basic rules we have employed are the following:

- Titles of books, monographs, etc. should be in quotations.
- Journal names should be in plain roman type.
- Journal volume numbers should be in boldface type, with the year of publication immediately following in roman type, and enclosed in parentheses.
- References to URLs on the net should be "active" and the URL itself should be in typewriter font.
- Articles should include page numbers.

The criteria are illustrated in the following.

References

- [1] Civin, P., and B. Yood, *Involutions on Banach algebras*, Pacific J. Math. 9 (1959), 415–436.
- [2] Clifford, A. H., and G. B. Preston, "The Algebraic Theory of Semigroups," Math. Surveys 7, Amer. Math. Soc., Providence, R.I., 1961.

[3] Freyd, Peter, Peter O'Hearn, John Power, Robert Tennent and Makoto

Takeyama, *Bireflectivity*, Electronic Notes in Theoretical Computer Science 1 (1995), URL: http://www.elsevier.nl/locate/entcs/volume1.html.

The ENTCS macro package is relatively easy to use and provides a uniform layout for all the papers that appear in ENTCS.

Problem 5.1 Finish your paper and get it to your Program Chairman on time!

When you have finished preparing your paper, send a copy of the *source file* together with any macro files that are needed to your Program Chairman. If the files are extensive, you can place copies in the pub/incoming sub-directory of the ftp directory on the machine indicated by your Program Chairman using anonymous ftp. If you do this, please send me email to alert me that the file(s) are here.

One additional point worth mentioning is that ENTCS is moving to Sci-

Assigning Volume / Issue Numbers

enceDirect, Elsevier's main platform for publishing electronic series, Because ScienceDirect must publish entire volumes at the same time, we have changed the procedure for preparing final versions so that volume numbers will not be assigned until the final versions are ready. Guest Editors will now have to receive the final version of all papers in their *Proceedings* before a volume and issue number will be assigned for the *Proceedings*. Even with the move to ScienceDirect, the reference scheme already used for publications in ENTCS – http://www.elsevier/nl/locate/entcs/ NNnn.html remains the valid way to cite papers published in ENTCS, where NN denotes the number of the volume, and nn denotes the issue number. Publications consisting of an entire volume should use 1 as the issue number.

Copyright Transfer Forms

One result of the move to ScienceDirect is that the corresponding author of each paper published in ENTCS must submit a signed Copyright Transfer



Here as well is a copy of a color image. While pdfIATEX can handle image files in other formats, IATEX can only handle .eps images reliably.



It also should be noted that we have included two separate source files for this example file – one for \LaTeX and one for \LaTeX – because we want

using LaTeX, and then apply the utility dvipdfm to produce the needed .pdf file. This utility makes inclusion of graphics particularly simple – those that are included in the LaTeX source file are simply converted to the .pdf format. As we note below, things are not so simple with the second alternative, which is to use pdfLaTeX.

An alternative to the first possibilities to produce .pdf files is to process

onverte a lavi me mio a lour me. Do, one can mot propare the lavi me

pdfIATEX

the source file with pdfIaTeX. This format is available from the standard CTAN sites http://www.ctan.org. It appears that pdfIaTeX and hyperref have some problems when used together. It is necessary to use pdfIaTeX version 14d or later in order to minimize these issues. If your system has an earlier version (most teTeX distributions have version 13d), then you can update your system by retrieving the latest version of pdfIaTeX from ftp://ftp.cstug.cz/pub/tex/local/cstug/thanh/pdftex/. Even if the recent versions are used, pdfIaTeX has the same dealing with references embedded with the frontmatter section described above for IaTeX.

But there is one aspect of pdfLaTeX that creates problems. Many authors include EPS⁵ files within their papers. While this is fairly straightforward with LaTeX, there are a couple of points to note when attempting this with pdfLaTeX.

To include a PostScript image in a .pdf file produced with pdfLATEX. you first have to convert the image to a .pdf file, and then it can be included using the same command sequence as above. The conversion can be

⁴ Beware! The utility dvipdf does not produce acceptable .pdf files, and should not be used. Only dvipdfm should be used to produce .pdf files.

⁵ EPS stands for *embedded PostScript*, which affords a mechanism for including preprepared PostScript files within a L^AT_EX document.

Ilsting for this short note.

The package hyperref is automatically loaded by entcs.cls, and this makes

However, note that the references should not be started with a new \sectic command.

all the cross-references within the document "active" when the pdf file of the paper is viewed with Adobe's Acrobat® Reader. The format for including a link is simple: simply insert \href{URL} {text} where URL is the URL to which you want the link to point, and text is the text you want to be highlighted, which when clicked upon will bring up the desired web page.

4.1 Particulars about .pdf files

We now require that .pdf files be provided for publication online. A .pdf file is viewable by Adobe's Acrobat® viewer, which can be configured to load automatically within a browser. Viewing a properly formatted .pdf file with Acrobat® allows the cross-references and links to URLs to be active. In fact, Elsevier utilizes .pdf files in order to take better advantage of the web's capabilities.

But one point we want to emphasize is that you should be sure to use Type 1 fonts when you typeset your LaTeX source file. These fonts are scalable, meaning that they carry information that allows the devise viewing the final output to scale the fonts to suit the viewer being used – from an onscreen viewer such as Adobe's Acrobat® Reader, to printing the file on a printer. You can tell if you have used the right fonts by viewing the final output on your machine. It the fonts look grainy, then you have not used Type 1 fonts. They can be located at the CTAN archive http://www.ctan.org – they are

Assuming you have Type 1 fonts available, then there are there methods for producing .pdf files.

public domain fonts, and don't cost anything to add them to your system.

The names of theorem-like environments are provided in entcsmacro.sty. With the exception of the environment Algorithm, the names of all of these are full name, rather than a shortened version. The environments provided and their names are

- \begin{theorem} ... \end{theorem} for Theorems,
- \begin{lemma} ... \end{lemma} for Lemmas,
- \begin{corollary} ... \end{corollary} for Corollaries,
- \begin{proposition} ... \end{proposition} for Propositions,
- \begin{criterion} ... \end{criterion} for Criteria,
- \begin{alg} ... \end{alg} for Algorithms,
- \begin{definition} ... \end{definition} for Definitions,
- \begin{conjecture} ... \end{conjecture} for Conjectures,
- \begin{example} ... \end{example} for Examples,
- \begin{problem} ... \end{problem} for Problems,
- \begin{remark} ... \end{remark} for Remarks,
- \begin{note} ... \end{note} for Notes,
- \begin{claim} ... \end{claim} for Claims,
- \begin{summary} ... \end{summary} for Summary,
- \begin{case} ... \end{case} for Cases, and
- \begin{ack} ... \end{ack} for Acknowledgements.

For example,

last names of the authors of the paper. If there are no more than three authors, then they should be listed with the word "and" between the last two; if more than three authors collaborated on the paper, then the first author only should be listed, together with \emph{et al}. This command creates the headline for each page after page 1.

Finally, please be sure to include an abstract for your paper.

3 Sectioning and Environments

Since ENTCS is published through the auspices of Elsevier Science B. V., their style files have been used to create the ENTCS macro package. Here's a proof that this package is not much different than most of the ones one encounters:

Definition 3.1 A file is *derived* from another if it is obtained with only a few modifications from the original file.

Theorem 3.2 The file entcs.cls is derived from elsart.sty.

Proof. This is clear from the similarity of the output to the output from Elsevier's style files.

If one wants to start a proof with a descriptive word, such as "sketch", then one can use the \begin{proof*}...\end{proof*} environment, as in

Proof (Sketch) This can be derived from simple observations.

The main differences between the file entcs.cls and the elsartr.cls file used by Elsevier are the more precise format we use – Elsevier's generic files are

meant for preliminary editing, and more precise formatting is imposed using a macro file designed for the specific Elsevier journal in which the paper will eventually appear. The entcs.cls and entcsmacro.sty files format papers

The ifpdf package. This is used by hyperref to differentiate between the

• The ifpdf package. This is used by hyperref to differentiate between the use of pdfLaTeX and LaTeX2e, followed by dvips and then ps2pdf.

The file instraut.dvi contains information about the use of LaTeX to prepare files for online publication by Elsevier. This file refers to the older version of LaTeX that is no longer supported, and that is inadequate for preparing .pdf files for online publication. Reading this file should answer most of the basic questions about LaTeX that might arise.

The biggest difference between a "usual" LATEX style such as article.sty

2 Frontmatter

and the ENTCS package is that the ENTCS macro package requires the title author's name or names, abstract, keywords and "thanks" all to be included within the frontmatter environment. At the beginning of the source file for this paper, you'll notice this. Also, you'll notice that the usual \maketitle is absent; it no longer is needed. The ENTCS style package automatically generates the title, author's name and address, and related material at the beginning of the paper. Note also that hyperref has been disabled in this part of the entcs.cls file, so references to footnotes aren't linked to the appropriate footenotes or addresses. This is an old problem with LATEX, involving the fact that the references within the frontmatter aren't passed cleanly to the linking software.

For those who have used the ENTCS package before, the one new thing to note is the inclusion of *Keywords*; these are now required by Elsevier – they're also required by ACM's *Computing Reviews* which reviews ENTCS publications.

The ENTCS macro package provides two alternatives to listing authors names and addresses. These are described in detail in the file instraut.dvi.

My Co-author's City, My Co-author's Country

Abstract

This is a short example to show the basics of using the ENTCS style macro files. Ample examples of how files should look may be found among the published volumes of the series at the ENTCS Home Page http://www.elsevier.nl/locate/entcs

Key words: Please list keywords from your paper here, separated by commas.

1 Introduction

preparing papers for publication in your conference *Proceedings*. The *Proceedings* may be printed and hard copies distributed to participants at the meeting; this is an option to Conference Organizers may choose to exercise. The *Proceedings* also will be par of a volume in the series *Electronic Notes in Theoretical Computer Science* (ENTCS), which is published under the auspices of Elsevier Science B. V., the publishers of *Theoretical Computer Science*. It's home page is http://www.elsevier.nl/locate/entcs

This short note provides a guide to using the ENTCS macro package for

entcs.cls, the basic style file, and

The ENTCS macro package consists of two files:

¹ Thanks to everyone who should be thanked

² Email: myuserid@mydept.myinst.myedu

³ Email: couserid@codept.coinst.coedu