A SAMPLE FILE TO WRITE VIAM ARTICLES *

Mikheil Rukhaia   Author 2   Author N

Abstract. This sample file describes how it is easier for authors and for editors to use new style file.

Keywords and phrases: Some keywords, authors, editors.

AMS subject classification (2010): code 1, code 2.

1   Introduction.   This style file is based on standard Article class. Thus, you can use any commands available in article class. The style of the commands is changed to match VIAM style. For example, there in no need to write indenting and other spacing commands to start new section, simply use corresponding commands for section, subsection, subsubsection, etc.

2   Content.   New style makes it easy to write article in two directions: the first is citation of the papers and the second is including external graphic files.

For citations, you should use **thebibliography** part, where each paper is added as **bibitem**. You should provide name to each bibitem and then cite [2] paper using its name in the text. Our standard for providing citations is the following: for journal or any kind of collection papers, the paper title should be normal text with lowercase letters, and the title of the journal or collection in italics, each word starting with uppercase letter. For the books, the title should be in italics and each word with uppercase letter.

It is very simple to find such descriptions of the papers online. When you search for a paper via google scholar or other search engines, for each paper you directly get links to citations in many formats.

The second, and most important improvement is that you can include files in any well known formats, like .jpg, .png, .pdf, and the like. It is not necessary to convert everything into old formats, such as .eps, although you can include .eps files as well. You should label your figures as well and then refer to them in the text (for example, something is given in Figure 1).

Also, we benefit from the in-built commands of the article class, where you can write examples, propositions, proofs, and the like easily.

Example 1. This is an example, that can have a label and referenced from the other places of the paper.

Proposition 1. *This is a labeled proposition.*
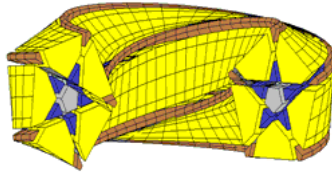
---

*Thanks to VIAM

Figure 1: An example figure.

Proof. This is a proof of Proposition 1. □

Theorem 1. *This is a theorem.*

Theorem 2. *This is a theorem.*

Remark 1. this is a remark.

Corollary 1. *this is a corollary.*

3 Compilation.

Theorem 3. *This is a theorem.*

To compile the tex file, you need to have viamax.cls file in the same folder, together with the other included files, if you are using some.

You can use standard fast compilation buttons inside the editors like WinEdt, TexWorks, Kile or others. As an alternative, you can run pdflatex then bibtex then pdflatex again (this sequence is necessary only if you are using .bib file for the literature).

During the compilation, the style file takes care of putting volume information in the beginning of the article, changing the title into uppercase and generating the author information at the end of the article.

4 Conclusions. As you noticed, there is a higher level of automation in the new style. Authors just need to provide information, the styling is done automatically, thus editors do not need to do everything by hand.

Nevertheless, if there will be any questions/problems regarding the new style, please contact to Mikheil Rukhaia.

R E F E R E N C E S

1. TSAMALASHVILI, L. Some exact solutions of the nonlinear 2D Burger's equation. *Reports of Enlarged Session of the Seminar of I. Vekua Institute of Applied Mathematics*, **29** (2015), 127-130.

2. LAMPORT, L. Latex: User's Guide & Reference Manual. *Addison-Wesley Reading*, 2010.

Author(s) address(es):

Mikheil Rukhaia
I.Vekua Institute of Applied Mathematics,
Tbilisi State University
University str. 2, 0186 Tbilisi, Georgia.
E-mail: mrukhaia@logic.at

Author 2
I.Vekua Institute of Applied Mathematics, Tbilisi State University
University str. 2, 0186 Tbilisi, Georgia.
E-mail: auth2@example.com

Author N
I.Vekua Institute of Applied Mathematics, Tbilisi State University
University str. 2, 0186 Tbilisi, Georgia.
E-mail: authN@example.com