

Template and general guidelines for submissions to Lecturas Matemáticas

Formato guía e instrucciones generales de preparación de artículos para Lecturas Matemáticas

Author A¹, Author B² and Author C¹

¹Department of Computer Science, University of Computerland

²Department of Mathematics, Advanced Institute of Research

ABSTRACT. This document provides basic instructions on how to prepare a \LaTeX file for an article to be submitted to *Lecturas Matemáticas*. The \LaTeX source file from which this document was produced (*GuidelinesforauthorsLM.tex*) can be used as a template for new submissions. For that use, authors must also copy files *LM.sty* and *authblk.sty* to the folder where they will have all their submission files.

Key words: \LaTeX format for documents, Lecturas Matemáticas.

RESUMEN. Este documento da algunas instrucciones básicas de preparación de los artículos para la Revista Lecturas Matemáticas, utilizando \LaTeX . El archivo \LaTeX a partir del cual se produjo este documento (*GuidelinesforauthorsLM.tex*) puede utilizarse como plantilla para nuevos artículos. Para este fin, el autor debe copiar también los archivos *LM.sty* y *authblk.sty* a la carpeta que contendrá todos los archivos de su artículo.

Palabras clave: Formato en \LaTeX para documentos, Lecturas Matemáticas.

2010 AMS Mathematics Subject Classification. Primary XXX; Secondary YYY, Third ZZZ.

1 General guidelines

This short document contains some basic guidelines on how to prepare a \LaTeX version of a paper to be submitted to *Lecturas Matemáticas*. The source file *GuidelinesforauthorsLM.tex* and the style files *LM.sty* and *authblk.sty* can be used by authors in order

to produce their submissions to the journal. The three files must be copied to the folder where the author will develop the article, and *GuidelinesforauthorsLM.tex* can be used then as a template by replacing the contents of this document by the contents of the new paper.

For example, the template contains the ways in which the environments for definitions, theorems, etc. should be typed. They were used to type the examples shown in the rest of this section.

Definition 1. Given two sets A, B contained a universe set \mathcal{U} , the symmetric difference of the two sets is $A\Delta B = (A \cup B) \setminus (A \cap B)$.

Theorem 1. Let A, B be subsets of \mathcal{U} . Then $A\Delta B = B\Delta A$.

Proof. Observe that

$$\begin{aligned} A\Delta B &= (A \cup B) \setminus (A \cap B) \\ &= (B \cup A) \setminus (B \cap A) \\ &= B\Delta A. \end{aligned} \tag{1}$$

where (1) is simply the definition of the symmetric difference given above. □

Remark 1. An unnumbered remark.

Corollary 1. Here goes some result (or results) the proof of which is an easy or immediate consequence of the previous theorem.

Just for the sake of illustration, the statement of this corollary could say that for every set A , it holds that $A\Delta\emptyset = \emptyset\Delta A$.

Proposition 1. For every set A , we have that $A\Delta A = \emptyset$.

2 Required information

Please take into account that every article published in *Lecturas Matemáticas* must include the following:

- The main title must be in the same language as the body of the paper. If the paper (and therefore the first title) is **not** in English, then the second title must be the title in English. On the other hand, if the paper is written in English, the second title is the title in Spanish. If needed, the staff of *Lecturas Matemáticas* will support authors who do not speak Spanish with this translation.
- The full name, email address, and affiliation of each one of the authors. Notice that some of this information appears both in the first page and last page of the article.
- An abstract and a list of keywords must be supplied in each one of the two languages used for the titles. Again, the staff of *Lecturas Matemáticas* will help authors who do not speak Spanish with these translation.
- A list of relevant codes from the 2010 AMS Mathematics Subject Classification.

3 Formatting of tables, figures and equations

Both figures and tables should be numbered consecutively with Arabic numbers. They should be clearly titled and labelled, and the identifying number must be cited within the body of the paper. Once the article is accepted, the tables should be designed so they fit the printing area of *Lecturas Matemáticas*. That includes the contents of tables, their length, number of representative digits, titles, subtitles, labels and footnotes. Some important things to take into account in the construction of tables are:

- Numbers must be centered if they have the same number of digits. In another case must be aligned with the right margin of the title.
- When the tables have data with decimal numbers, the number of decimal places must be equal within the same column.
- Alphanumeric data should be centered.

One example is given in Table 1.

Table 1. Summary of results from Experiment A

a	\hat{a}	c	c^*
32.1	-51.2	2.16	51.2
32.1	51.2	1.20	63.1
32.3	42.4	0.01	61.7
31.7	64.0	1.23	62.7
23.9	-41.3	0.37	41.7
23.9	41.3	1.41	42.6
27.2	46.7	0.24	46.0
24.8	-41.1	2.13	43.9

Figures must be visually clear and capable of withstanding reduction. Figures must be in pdf, tif, gif, png or eps format. The title should be centered and at the bottom of Figure. See as an example Figure 1.



Figure 1. This is a section of a photograph called “Math on Walls” available from the freeshare stock of images <http://www.splitshire.com>

Numbered mathematical expressions should be typed and centered on a separate line and identified by consecutive Arabic numerals enclosed by parentheses. The identifying label must fit flush with the right margin. Short expressions requiring only one line should remain in the text, unless there is the need to refer to them elsewhere by a number. Lengthy equations should be handled using definitions or broken to conform to the column format.

Keep in mind that space is placed around all operation symbols and before and after function words such as log, sin, and ln (unless they precede or follow a parenthesis, e.g., $\log(x + y)$).

$$y = W\mu + Z\theta + e \tag{2}$$

Use square brackets for matrices (see Equation 3)

$$\begin{bmatrix} W'R^{-1}W & W'R^{-1}Z \\ Z'R^{-1}W & Z'R^{-1}Z + D^{-1} \end{bmatrix} \begin{bmatrix} \mu \\ \theta \end{bmatrix} = \begin{bmatrix} W'R^{-1}y \\ Z'R^{-1}y \end{bmatrix} \tag{3}$$

Acknowledgments

Acknowledgments of people, grants, funds, etc. should be placed in a separate section before the reference list. The names of funding organizations should be written in full.

References

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FIRSTNAME1 SURNAME1
SUBDIVISION
INSTITUTION
CITY, COUNTRY
e-mail: aaa@
FIRSTNAME2 SURNAME2
SUBDIVISION
INSTITUTION
CITY, COUNTRY
e-mail: aaa@
FIRSTNAME3 SURNAME3
SUBDIVISION
INSTITUTION
CITY, COUNTRY
e-mail: aaa@