

INSTRUCTIONS TO PREPARE AN ARTICLE ACCORDING TO THE AMCA-STYLE

First A. Author^{a,b}, Second B. Author^b, Third C. Author^b and Fourth D. Author^a

^a*Grupo de Mecánica Computacional, Universidad Nacional de Villa Carolina, Los Alerces 3492,
4200 Villa Carolina, Argentina, gmc@uncarolina.edu.ar, <http://www.uncarolina.edu.ar/gmc>*

^b*Grupo de Ingeniería Aplicada, Universidad Nacional de La Meseta, Los Cipreses 3493, 4201 La
Meseta, Argentina, gia@unmeseta.edu.ar, <http://www.unmeseta.edu.ar/gia>*

Keywords: Instructions, AMCA style, Computational Mechanics, article.

Abstract. This document provides information and instructions to prepare an article following the AMCA style. The first page is reserved for the title of the article, the authors, their affiliations, the keywords and the abstract. The abstract must have a unique paragraph and must be fully contained in the first page. The Introduction must begin at the top of the second page. The first page of the article will be printed in the Book of Abstracts. All the instructions as well as the example files for LATEX and MS-Word can be found in the web page of AMCA <http://www.amcaonline.org.ar>.

1 INTRODUCTION

This document provides information and instructions to prepare an article according to the AMCA style. Only the articles formatted according to the present guidelines will be accepted for AMCA publications.

2 GENERAL SPECIFICATIONS

The article may be written in English, Spanish or Portuguese within a printing box of 16cm x 24cm, centered in the page. The article including figures, tables and references must have a minimum length of 4 pages and must not exceed 10 pages. The article must be uploaded to the AMCA site in the form of a **PDF** file; no other formats (MS Word, RTF) are accepted. The size of the PDF file of the article must not exceed 2 MBytes.

2.1 Use of acronyms

If acronyms are used, then define them before their first occurrence.

3 TITLE, AUTHORS, AFFILIATION, KEYWORDS

The first page must contain the Title, Author(s), Affiliation(s), Keywords and the Abstract. The second page must begin with the Introduction. The first line of the title is located 3cm from the top of the printing box to enable the insertion of the conference header and AMCA logo.

3.1 Title

The title should be written centered, in 14pt, boldface Times Roman, all capital letters. It should be single spaced if the title is more than one line long. Inclusion of formulas or special characters in the title is **highly** discouraged. Acronyms may be used if defined *in-line*, for instance “Large Eddy Simulation (LES) of flow around a cylinder”.

3.2 Author

The author’s name should include first name, only the initial of the second name and last name. It should be written centered, in 12pt boldface Times Roman, 12pt below the title. Collate all the authors together, split in several lines if necessary. Use the connector “**and**” before the last author. Affiliations must be arranged in centered blocks, after the list of authors. Identify the authors with their corresponding affiliations using a letter superscript, as in the example. If all the authors belong to the same affiliation do not use superscript

3.3 Affiliation

Author’s affiliation should be written centered, in 11pt Italic Times Roman, 12pt below the list of authors. A 12pt space should separate two different affiliations. It is recommended that the authors include an e-mail address and a web page per affiliation site, if possible.

3.4 Keywords

Please, write no more than six keywords. They should be written left aligned, in 12pt Times Roman, and the line must begin with the word **Keywords**. A 12pt space should separate the keywords from the affiliations.

3.5 Abstract

Use 11pt Times Roman for the abstract. The word **Abstract** must be set in boldface, not italicized, at the beginning of the first line. The abstract text should be justified and separated 12pt from the keywords, as shown in the first page of these instructions. The abstract should be self-contained, so do not include figures, tables or equations in the abstract. Neither include any reference to such material. It is discouraged to include references to other work in the abstract. In case of including any references, then they should be included *in-line* but abbreviated, as in this example (C. Jhonson et.al., *Int J Num Meth Eng*, 34(3):543–568 (1992); D. Mitchell and J. Brady, *J Sound Vib*, 21(2):221–230 (2006)). Multiple citations should be separated by semi-colons. **It is strongly discouraged to include more than 2 references in the abstract.** Inclusion of formulas is **highly** discouraged. Avoid special characters. If acronyms are used, then define them before their first occurrence. An extension of the abstract between 150 and 300 words is suggested.

4 HEADINGS

4.1 Main headings

The main headings should be written left-aligned, in 12pt, boldface and all capital Times Roman letters. There should be a 12pt space before and a 6pt space after the main headings.

4.2 Secondary headings

The secondary headings should be written left-aligned, in 12pt, boldface Times Roman, with an initial capital for the first word only. There should be a 12pt space before and a 6pt space after the secondary headings.

5 TEXT

The normal text should be written single-spaced, justified, using 12pt Times Roman, in one column. The first line of each paragraph must be indented 0.5cm. There is not inter-paragraph spacing.

6 PAGE NUMBERS

The authors **must not number** the pages of the article. Numbers will be added by the editor/publisher.

7 FIGURES

All the figures should be numbered consecutively and captioned. The caption should be written centered, in 10pt Times Roman. Capitalize only the first letter of the sentence.

A 6pt space should separate the figure from the caption, and a 12pt space should separate the upper part of the figure and the bottom of the caption from the surrounding text (see Fig. 1).

Figures should be referenced in the text. Color figures are welcomed.

8 EQUATIONS

A displayed equation is numbered, using Arabic numbers in parentheses. It should be centered, leaving a 6pt space above and below to separate it from the surrounding text.

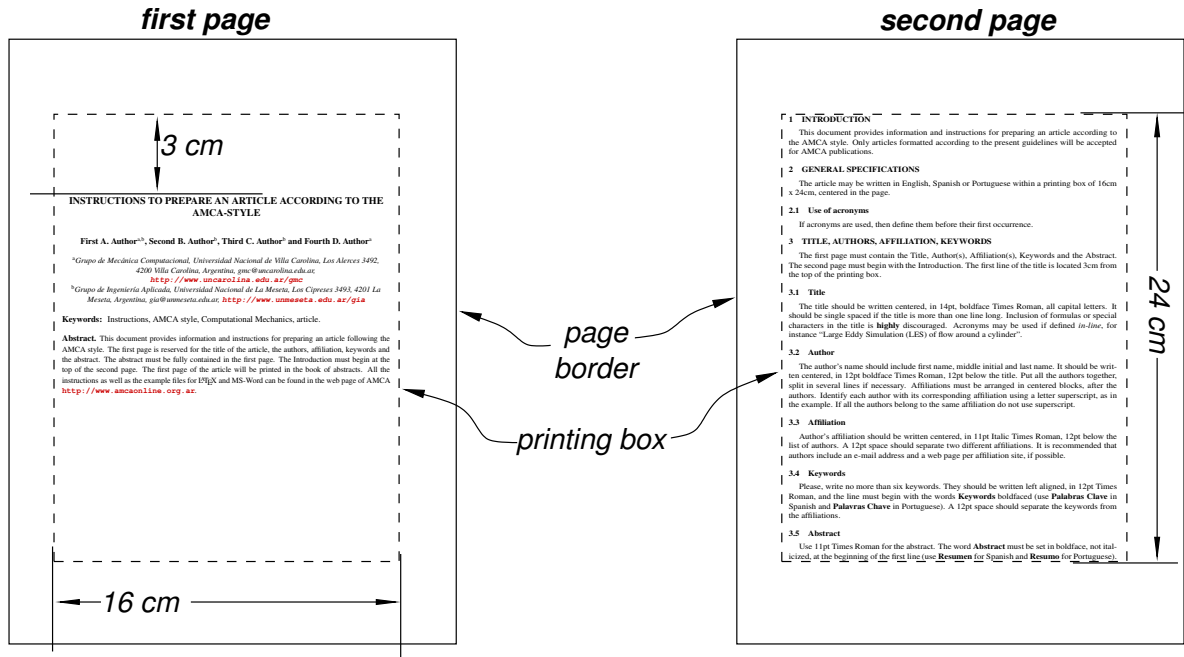


Figure 1: Page layout

The following example is a simple single line equation

$$Ax = b. \quad (1)$$

The next example is a multi-line equation

$$\begin{aligned} Ax &= b, \\ Ax &= c. \end{aligned} \quad (2)$$

If possible, internal PDF links must be generated for references to equations. The recommended color for links to references in the text is blue (e.g., see Eq. (2)).

9 TABLES

All tables should be numbered consecutively and captioned; the caption should be 10pt Times Roman. Capitalize only the first letter of the sentence.

A space of 6pt separates the table from the caption, and 12pt space separates the table from the surrounding text. For an example, see Table 1. Tables should be referenced in the text.

	20x20 mesh	50x50 mesh	100x100 mesh
0	41.00	1.00	4.92
1	40.86	1.02	4.88
10	23.81	3.44	2.92
50	5.62	64.20	1.08

Table 1: Condition number for the Stekhlov operator.

10 FORMAT OF REFERENCES

References should be quoted in the text using the *author-style* (a.k.a. *Harvard style*). References can be cited in *parenthetical* form (Zienkiewicz and Taylor, 1991; Idelsohn and Oñate, 1994; Meyer et al., 1995a,b; Fernández Méndez, 2001; Taylor et al., 2003), or in *textual* form, e.g. see Zienkiewicz and Taylor (1991); Idelsohn and Oñate (1994); Meyer et al. (1995a,b); Fernández Méndez (2001); Taylor et al. (2003). References are grouped together and sorted alphabetically at the end of the article as shown in these instructions. Do not include references that are not cited in the article body. Use references with Roman symbols. Do not use, for example, Greek, Chinese or Japanese symbols.

If possible, internal PDF links must be generated for citations. The recommended color for links to references in the text is blue. The preferred color for links to external references, as web pages, is red (e.g. <http://www.amcaonline.org.ar>).

DOIs must be included for all references where they exist. Specifically, use the `doi` field provided within your `.bib` file, as illustrated in the `amcapaper.bib` file.

11 CONCLUSIONS

Template files in TeX, L^AT_EX and MS-Word may be found at the AMCA web site: <http://www.amcaonline.org.ar>. It is recommended to use these files to comply with the style more easily. Remember: **Do not number the pages**.

REFERENCES

- Fernández Méndez S. *Mesh-free methods and finite elements: friend or foe?* Universitat Politècnica de Catalunya, 2001. <http://doi.org/10.5821/dissertation-2117-94016>.
- Idelsohn S. and Oñate E. Finite element and finite volumes. Two good friends. *International Journal for Numerical Methods in Engineering*, 37:3323–3341, 1994. <http://doi.org/10.1002/nme.1620371908>.
- Meyer E., Morrison A., and Plummer C. Finite differences and finite volumes. Two old friends. *Journal of Numerical Methods*, 32:1223–1241, 1995a.
- Meyer E., Morrison A., and Plummer C. The finite element method: A good friend. *Journal of Numerical Methods*, 32:2223–2241, 1995b.
- Taylor R., Filippou F., Saritas A., and Auricchio F. A mixed finite element method for beam and frame problems. *Computational mechanics*, 31:192–203, 2003. <http://doi.org/10.1007/s00466-003-0410-y>.
- Zienkiewicz O. and Taylor R. *The finite element method*, volume II. McGraw Hill, 1991.