



Instructions for Preparing Full Papers for the VIII Semetro

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Abstract: The main purpose of this model is to present the format of the final version of accepted papers to the 8th International Seminar on Electrical Metrology - VIII Semetro. Final version of the accepted papers must use this format and must have at least three (3) and at most eight (8) pages.

Keywords: first keyword, second keyword, third keyword, fourth keyword (maximum of five).

1. BASIC INFORMATION

The papers can be written in Portuguese, Spanish or English. The abstract must be written in English even for Portuguese and Spanish written papers. The paper title should be brief and self explanatory. Author names are shown after the paper title in a single line if possible, separated by comma. The affiliations should be informed in a summarized way, using different lines. Associate the name of each author with his affiliation by means of a numeric calling (superscript).

The main body of the paper should be divided into sections. For greater clarity the standard model may be used (not demanding), composed by Introduction, Purpose, Methods, Results, Discussion and Conclusions. Each section may be divided into subsections. The initial section (Introduction) should present the problem and describe the state of art in the area, as well as the proposed solution and their merits. The following sections (Purpose, Methods and Results) should describe in details the methods and procedures used in the research and the obtained (experimental or simulated) results. In the following section (Discussion), the obtained results should be compared with the ones obtained by other authors, discussing the advantages and limitations of the proposed solution. In the final section (Conclusion) the results, the restrictions to the application of the method and the possibility of applying the results, should be presented.

Acknowledgments can be expressed briefly after the main body of the paper. At the end, the list of bibliographic references must be added.

1.1. Writing style

Use a clear technical language. When dealing with metrological concepts, use the International Vocabulary of Metrology.

Use the International System of Units (SI). Other units, if unavoidable, should be used as secondary units and written into parenthesis, except when they are units that, although belonging to the SI, are used as commercial identifiers (e.g. 3½-inch diskettes). Units symbols must be in normal style; symbols of quantities in italic style.

2. PREPARATION OF THE PAPER

The paper should be edited in A4 format (21.0 x 29.7 cm). After the affiliations there should be introduced two free lines based on Normal style, and a continuous section break. The first section should be formatted using single column, 4.8 cm and 2.0 cm of upper and lower margins, respectively. The left and right margins should be 1.6 cm for all the paper sections. The second section, after the section break, should be formatted into two columns of 8.6 cm each. The upper and lower margins should be 2.0 cm and the footer should be set to 1.2 cm.

The VIII Semetro logo, on the top of the page, should be positioned in the front of the text (in format picture): horizontal centered relative to the page; vertical absolute position of 2.0 cm from the top of the page.

You can use this document as a template for writing the final version of your paper. For that purpose, you just have to substitute all the items here by yours own.

3. STYLES

The paper should be written using already defined styles for the conference, presented in this template made for MS Word. Styles used in the final version of the paper are described in Table 1. If you are using Latex for writing the final version of the paper, you should make the paper to look as similar as possible to this template and styles. Some specific styles are explained on the following.

3.1. Tables and figures

The tables and figures (drawings, diagrams, graphics and photos) should be inserted preferentially in the page where they are referenced and discussed for the first time. Insert the tables and figures in a centered position, preferably at the beginning or at the end of the columns. They should occupy the complete column width, as exemplified in Fig. 1,

to maximize readability, although, big tables and figures may occupy both columns (see Table 1).

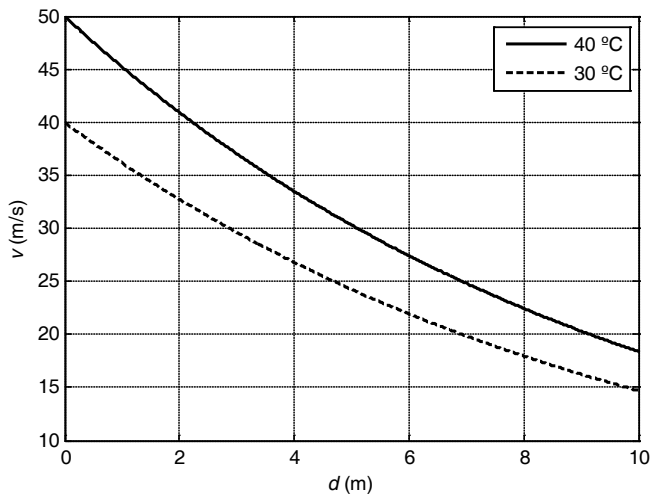


Fig. 1. Example of figure.

Figure and tables spanning two columns can be achieved using text boxes or frames. Insert a text box and adjust it to occupy both columns. After that you can set the styles inside the text box and place the figure or table and caption.

Tables and figures must be numbered and referenced in the text and must always have an explanatory caption. The captions must be placed above the tables and below the figures, centered in the column.

Figures may be in black and white or in color. In all graphs, abscissas and ordinates must be identified with symbols and units. Care must be taken in using values at the scales so that they keep readable when the graph is reduced to fit in the column. It is recommended to insert the figures

in such a way that they produce a file with the smallest possible size.

3.2. Equations

The equations must be numbered sequentially through the text, using the style Equation. Equation number must be put into parenthesis and shifted to the right as showed in the following example:

$$L_p(t) = 10 \log \left[\frac{1}{N} \sum_{n=1}^N 10^{\frac{L_{pn}(t)}{10}} \right] \quad (1)$$

Use the appropriate mathematical symbols to make your equations more compact. If you are using the MS Equation Editor, remember that its default font size is 12. To adequate the equation size, you can simply redefine the size in “format object” to be 83 % of the original size.

3.3. Lists

Numbered or bulleted lists should be written using the List style. You may opt not to insert automatically bullets or numbers in the list to avoid the MSWord reformatting the paragraph. Instead you can insert numbers manually and bullets from the menu “insert symbol” using Wingdings font, character number 159. Numbered and bulleted lists are shown as follows.

1. First numbered item;
 2. Second numbered item;
- First bulleted item;
 - Second bulleted item;

Table 1. Styles description

Style name	Used for	Definition
Normal	Default style	Font: Times New Roman, Justified, Line spacing: single.
Affiliation	Authors affiliation	Font: 9 pt, Centered, Based on: Normal
Author	Paper authors	Centered, Based on: Normal
Caption	Table and figure captions	Font: 9 pt, Centered, Space Before: 3 pt, After: 3 pt, Based on: Normal, Following style: Normal
Equation	Equations	Right, Space Before: 3 pt, After: 3 pt, Tab stops: 4,3 cm, Centered + 8,6 cm, Right, Based on: Normal
Figure	Figures	Font: 9 pt, Centered, Space Before: 6 pt, Based on: Normal
List	Bulleted or numbered lists	Indent: Left: 0,5 cm, Hanging: 0,5 cm, Space Before: 3 pt, After: 3 pt, Don't add space between paragraphs of the same style, Based on: Normal
Reference	Reference text	Font: 9 pt, Indent: Left: 0 cm, Hanging: 0,75 cm, Tab stops: 0,75 cm, Left, Based on: Normal
Section	Section headings	Font: Bold, All caps, Centered, Space Before: 12 pt, After: 6 pt, Keep with next, Level 1, Based on: Normal, Following style: Text NoIdent
Subsection	Subsection headings	Font: Italic, Space Before: 9 pt, After: 6 pt, Keep with next, Level 1, Based on: Normal, Following style: Text NoIdent
Table	Table text and headings	Font: 9 pt, Space Before: 2 pt, After: 2 pt, Based on: Normal
Text	Text in general	First line: 0,5 cm, Space Before: 2 pt, After: 2 pt, Based on: Normal
Text NoIdent	Text after section headings	Indent: First line: 0 cm, Space After: 3 pt, Based on: Text, Following style: Text
Title	Paper title	Font: 14 pt, Bold, Centered, Space After: 18 pt, Based on: Normal, Following style: Author

3.4. References style

List and number all the bibliographical references in the order they appear in the text, immediately after the last section of the text (or Conclusion) or after the acknowledgments if there is one. See examples of recommended citation styles in [1-3]. Do not include any reference in the Abstract or Conclusion.

Works not yet published should be cited as “in publication” when they were already accepted for publication, and as “not published” when submitted for publication but not yet accepted.

The references in the text have to be made only with the reference number between brackets (e.g. [1]). If wish to mention the authors of a work in the text, give the names of all of them, unless they are more than six. In this case use the name of the first one and add “et al.”

4. CONCLUSION

In the last page, if applicable, you can insert a column break to avoid a just one big column on the left side of the page. Follow these instructions carefully in preparing your paper. Send the electronic version of the file in Adobe Acrobat (.pdf) format or Microsoft Word (.doc) format.

ACKNOWLEDGMENTS

Thank you for your cooperation in accepting these instructions. The success of the VIII SEMETRO will also be constructed in the small details. We are waiting for your important contribution.

REFERENCES

- [1] R. Abraham, J. E. Marsden, T. Ratiu, *Manifolds, Tensor Analysis, and Applications*. 2 ed. New York, Springer-Verlag, 1988.
- [2] G. M. Rocha, G. A. Kyriazis “A Software for the Evaluation of the Stability of Measuring Standards Using Bayesian Statistics”, proceedings of the 13th International Symposium on Measurements for Industry Applications, Athens, September 2004.
- [3] G. M. Rocha, A. Q. L. Sousa, L. M. Ogino, E. Toth; “Spurious Effects in Bridges for Measuring of Inductance”, proceedings of the 25th Conference on Precision Electromagnetic Measurements (CPEM2006), Turin, Italy, July 2006.