

Guidelines on how to prepare a paper for the SIRM Conference

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Abstract

This brief document illustrates the preparation of a SIRM 2023 conference paper and also serves as a template. The authors are encouraged to adhere to this layout when preparing the paper. It is suggested to use either L^AT_EX or MS-Word as a word processor, since template files are provided for both systems. These files are available on the SIRM 2023 website: www.sirm2023.de.

However, we cannot give a guarantee that the guideline works without a mistake.

Nomenclature

If you use lots of symbols in your paper it might be a good idea to make a table or list and include it here. If not needed just delete this section and define symbols and acronyms the first time they appear.

1 Introduction

The layout to be used for this conference follows common layout and typesetting rules. To further assist authors, layout templates are available for L^AT_EX and MS-Word. The layout is made as if it were a conference paper. Please follow the guideline as closely as possible. You save your time and the time of the conference organizational team. If your article differs too much from the guideline, we have to send it back for correction.

The production of the conference proceedings will be based on PDF documents. Please submit only PDF files via the submission system <https://easychair.org/conferences/?conf=sirm2023> (see also clause 6).

2 Organization

On the first page of the paper there should be a headline indicating the conference name, date and location as shown on this template paper. The length of the title of your paper should not exceed two lines. Font size and type of the title is Times Roman bold 14pt. Please don't use only capitals for the title. Separate title and headline as it is shown in the guideline.

Author's name(s) and affiliation(s) follow the title. Also include an email address. Font size and type of the author's name is Times Roman bold 12pt. Underline the author who is anticipated to present the paper.

Your paper should begin with an abstract. Include a list of symbols (nomenclature) if this helps to organize your paper.

The main part of the paper with numbered section headings starts with the introduction. Main section headings are typeset in Times Roman bold 10pt, followed by as many sections and subsections as needed. The ending should feature a conclusion and a list of references. Acknowledgements (if any) may precede the references.

2.1 Length

The length of the abstract should not exceed 200 words (about 12 lines). The maximum length of a regular paper, including figures and tables, is to be **ten (10) pages**.

2.2 Layout

The width of the text body should be 16 cm and the height 24 cm. The first page of the paper starts with a headline positioned at the top of the upper border of the text body. Use Times Roman bold 10pt for the headline.

The footer is separated by 1 cm from the lower border of the text body. The print area should be in the center of your A4 paper (horizontally and vertically). The minimum distance between the paper border and the text should be at least 1 cm. The main text has to be typeset in Times Roman 10pt.

In any case, do not alter the templates and style files you download from the above mentioned website with respect to height and width of the text body. Also leave all settings for font size and font type unchanged.

2.3 Symbols

The use of the International System (SI) of units is mandatory, and the use of additional (customary) units is optional.

2.4 Page Numbering

Start page numbering on the first page with arabic number 1 in Times Roman 10pt. Center page numbers with respect to the text body. Separate this line by 1 cm from the lower border of the text body.

2.5 Paper Number

On acceptance of your paper, a Paper Identification Number will be assigned which you may look up on the conference website. Put this number in a text field on the same line as the page numbering and align right. Use the format "Paper-ID xyz" and replace xyz by your paper number. See the example on the pages of this guide. The Paper ID should appear on each page.

3 Figures and Tables

For the proceedings document both colour and black-and-white drawings, tables and photographs are acceptable. Please check if the coloured lines are also visible and distinguishable if printed in black and white. Please be careful not to include figures that are too large! On average a figure should not exceed 100kB to keep the size of the entire document reasonable. Frequently, the size of figures can be reduced significantly without loss of resolution when being printed or displayed.

If possible use Times Roman font for the annotation of figures. In any case, no letters and numbers smaller than the text font size (10pt) may appear on figures and drawings! Captions should explain illustrations without a further reading of the paper text. See the examples about the layout of figure captions. Use tables when numerical

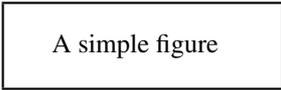


Figure 1: An example figure, clean, neat and easy to understand.

data are presented. Please consider that figures may illustrate the context much better than a cluster of numbers. Arrange the tables such that you take advantage of the text width, rather than making them narrow and long. You may even combine tables and figures in one line. Note that table captions are centered on top of the table, whereas captions for figures are placed below the figure(s).

Table 1: Numerical results for x , y , z , and C at different equilibrium points L_i

Equil. Points	x	y	z	C	S
L_1	-2.485252241	0.000000000	0.017100631	8.230711648	U
L_2	0.000000000	0.000000000	3.068883732	0.000000000	S

4 Equations

All equations

$$c = \sqrt{a^2 + b^2} \quad (1)$$

should be centered and numbered in sequence, similar to the examples given. This document, for example, was prepared using \LaTeX . If you use another word processor, try to match the style and, most importantly, the font size of the formulas you create with those shown in this document.

If you write your paper in Microsoft Word, for example, please use the Microsoft Formula Editor (usage of version 3.0 is highly recommended) for formulas and all other mathematical symbols. Note that you have to set the equation numbers manually in MS-Word. See, for example, <http://www.dcs.uwaterloo.ca/ec/equations/equation.html>.

Several equations may be placed in one line if you separate them clearly.

$$\eta_{j/n}^{pr} = \frac{2\Omega_j}{n}, \quad \eta_{j\pm k/n}^{cr} = \frac{|\Omega_j \pm \Omega_k|}{n}, \quad (j, k = 1, 2), (n = 1, 2, 3, \dots). \quad (2)$$

Symbols used in the text body should be of the same font size and style as used in equations. For example, here we use Ω_j and Ω_k , which denote the j -th (k -th) natural frequency of the system. The denominator n represents something else. Formulas embedded in the text like $\mathbf{M}\ddot{\mathbf{x}} + \mathbf{K}\mathbf{x} = \mathbf{0}$ should be avoided, unless they are very short and need not to be numbered. Refer to equations by using the numbers assigned to them. Equation (1) is the

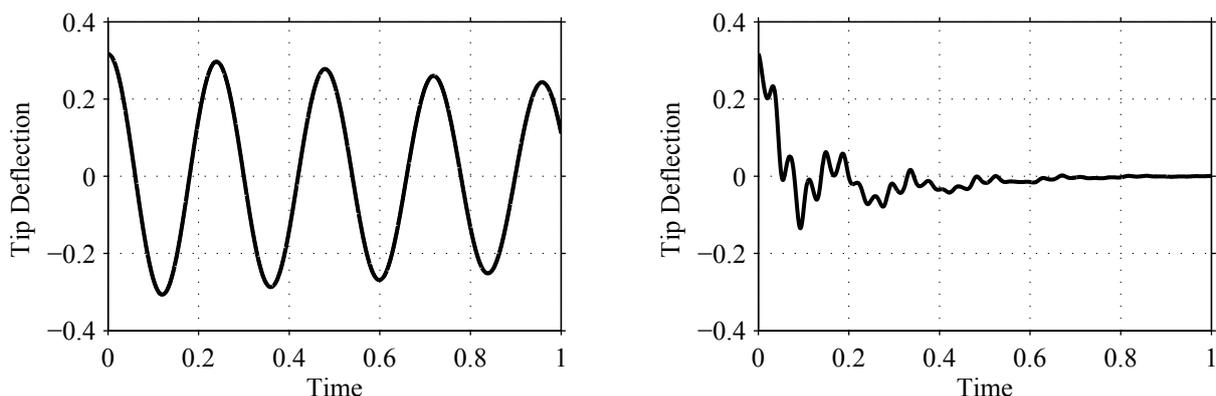


Figure 2: Vibration signal at the tip of a cantilever beam. Left free oscillations without parametric excitation, right with optimal harmonic axial force excitation.

equation just above this paragraph. Please note that in MS-Word it can be dangerous to set formulas within the main text. In some cases MS-Word will not count the equation numbers correctly!

5 Bibliography

List all bibliographical references at the end of the paper in the manner shown (listing in alphabetic order with respect to last name of first author). Include the year of publication within parentheses just after the last author. Note the different style of references and use them as shown, when you list books, journal papers, proceedings papers or monographs. Refer to references in the text as follows: Childs discusses this case in [3]. Other authors have also carried out experimental studies, see [6], [4] and [5].

6 Final Paper Submission

Your draft paper should be submitted **as a PDF-file** via the submission system

<https://easychair.org/conferences/?conf=sirm2023>

no later than by **October 12th, 2022**. Your **final paper** should be submitted via the conference web site no later than by **December 1st, 2022**. Faxed submissions will not be accepted! The size of the files may not exceed **15 MB**.

7 Conclusion

A carefully prepared manuscript that follows the layout rules as explained in this document will make a better presentation of your work and spare us unnecessary effort in pestering you to get it right. Good luck!

Acknowledgment

All L^AT_EX users would like to sincerely thank Donald E. Knuth and Leslie Lamport for their efforts creating T_EX and L^AT_EX and sharing this great software with the scientific community. All MS-Word users think the same about Bill Gates, don't they?

References

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