Guidelines for Preparation of Full Paper

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Abstract
This file provides the guidelines for preparation of a full paper for the Asian Congress of Structural and Multidisciplinary Optimization 2022 (ACSMO 2022). Please follow the instructions detailed below.

Keywords: *Structural optimization, shape optimization, topology optimization (Three to five keywords should be typed here in italic, separated by commas.)*

1. Introduction

Full papers of ACSMO 2022 will be published in the electronic proceedings, distributed at the congress site. A full paper should be **no less than two pages length and not over ten pages**, and should be converted to a **PDF file** by the author(s)' responsibility. Submission of a full paper should be completed through the ACSMO 2022 web page (`https://acsmo2022.org/`) **no later than April 6, 2022**.

The manuscript must be typed on A4 sheets (297 mm in height and 210 mm in width). The **left and right margins should be 20 mm, and the top and bottom margins should be 35 mm and 30 mm, respectively**. Accordingly, the typing area of each page is **232×170 mm (9.13×6.69 inch)**.

2. Typing instruction

The text should be typed in black color. The font Times New Roman or (if not available) a similar one should be used. Use of 10-point font and single line space for the main text is mandatory. Type the title of the paper on the top of the first page. Allow one blank line between the title of the paper and the name(s) of author(s), one blank line between the name(s) of author(s) and the affiliation(s) of author(s), and one blank line below the affiliation(s) of author(s). Similarly, allow one blank line between the abstract and the list of key words, and one blank line below the list of keywords. Do not put a blank line between two successive paragraphs of the body text.

2.1. Title

The title of the paper should be typed in upper and lower cases with 12-point boldface. The title should be centered.

2.2. Name(s) of author(s)

Type the name(s) of author(s) with 11-point boldface, in the order of first name (forename) and last name (surname). The name(s) of author(s) should be centered.

2.3. Affiliation(s)

The affiliation(s) of the author(s) (including city and country, as well as e-mail address of the corresponding author) should be typed below the list of authors. The affiliation(s) should be centered and typed with 11-point plane typeface.

2.4. Abstract

The abstract should not include references and displayed equations. Allow one blank line between the affiliation(s) of author(s) and the abstract.

2.5. Keywords

Three to five keywords should be provided. The keywords should be typed in italic, and be separated by commas. There should be one blank line below the keywords.

2.6. Sections and section headings

The paper should be divided into sections numbered as 1, 2, 3, etc. Subsections should be numbered as 1.1, 1.2, 1.3, etc. Section headings should be typed with 10-point boldface, and start with an upper case letter, followed by lower case letters. Subsection headings should be typed with 10-point plane typeface, and start with an upper case letter, followed by lower case letters. Allow one blank line above each heading.

2.7. Equations

All equations must be clearly typed and consecutively numbered. All equations should be centered. Displayed equations should be numbered simply as (1), (2), (3), etc; e.g.,

$$H = 2\left(F(\boldsymbol{X}_1) - F(\boldsymbol{X}_2) - \sum_{i=1}^{n} \frac{\partial F(\boldsymbol{X}_2)}{\partial x_i} \frac{x_{i,2}^{1-p_i}}{p_i}(x_{i,1}^{p_i} - x_{i,2}^{p_i})\right). \tag{1}$$

The numbers should appear at the extreme right of the line. Refer to equations in the text as Eq. (1), Eq. (2), Eq. (3), etc.

2.8. Tables and figures

Tables and figures, respectively, should be consecutively numbered. Place a table title above every table, and a figure caption below every figure. Allow one blank line between a table and its title, and one blank line between a figure and its caption. Allow one blank line between a table and body text, and one blank line between a figure and body text. Tables should meet the form of three-line table. Refer to tables and figures in the main text as Table 1 and Fig. 1, respectively.

Figure 1. Circumferential stress.

Table 1. Material properties.

T (mm)	α	Fraction	E_1 (MPa)	E_2 (MPa)	G_{12} (MPa)
10.0	−0.3038	0.1458	7087.03	103.81	41.30
20.0	−0.9977	0.2848	14462.00	645.08	276.96
30.0	−2.4270	0.2848	22456.00	1905.70	934.38
40.0	−5.1850	0.5696	31842.00	3955.00	2306.10

2.9. References

References should be listed at the end of the paper and consecutively numbered. Refer to references in the text with reference number in brackets as [1], [2], [3], etc. Style the reference list in accordance with the examples at the end of this file. The standard abbreviations of journal titles can be used.

Acknowledgments

Acknowledgments of people, grants, funds, etc. should be placed before the list of references, as an unnumbered separate section.

References

[1] J. S. Arora, Introduction to Optimum Design (2nd ed.), Elsevier, San Diego (2004).

[2] K. Suzuki and N. Kikuchi, A homogenization method for shape and topology optimization, Comp. Methods Applied Mech. Eng., Vol. 93(3), pp. 291–318 (1991).

[3] K. Yonekura and Y. Kanno, A flow topology optimization method for steady state flow using transient information of flow field solved by lattice Boltzmann method, Struct. Multidiscip. Optim., Vol. 51(1), pp. 159–172 (2015).