

Instructions for the preparation of camera-ready paper

Adam B. Kowalski and Jan Nowak*

Chair of Mechanics of Materials, Technical University of Łódź

Al. Politechniki 6, 90-924 Łódź, Poland

e-mail: Adam.B.Kowalski@p.lodz.pl

Abstract

This document provides the detailed instruction how to prepare the abstract for the Book of Abstracts and the paper which will be published on a CD-ROM. The complete abstract including figures, tables and references should have exactly 2 pages. The paper must not exceed 10 pages. The proceedings will be published in Portable Document Format (PDF). The authors are responsible for translating their papers to PDF. To fit on one CD-ROM the paper PDF file cannot be larger than 2.0 MB. Abstracts and papers which will not satisfy the formal requirements listed in the instruction will not be accepted and will be returned to the authors. If you are not clear about any of the instructions or would like to get further information on formatting, please contact the organizers. The papers will be published without any changes.

Keywords: finite element method, optimisation, evolutionary algorithms

1. Introduction

This is an instruction for authors written in a required form. The paper is expected to be written in grammatically correct and easily readable English. An author who is not proficient in English is kindly advised to take the help of a linguist before typing. It should be thoroughly checked for spelling mistakes.

2. Format

The paper must be written on paper size A4 (21.0 cm/29.7 cm). Text should be produced within the following dimensions: each column 8.2 cm wide with 0.6 cm middle margin, total width 17.0 cm and a maximum length of 23.5 cm. Paper margins must be equal on both sides and equal on the top and bottom. Keep the stipulated length apart from the following two exceptions: (i) do not begin a new section directly at the bottom of a page, but transfer the heading to the top of the next column; (ii) you may exceed the length of the text area by one line only in order to complete a section of text or paragraph.

The usual text must be written with letter size 9 pt and single spacing. Unless stated otherwise, the font used must be Times-Roman. The words figure, reference and equation have to be abbreviated as Fig. 1, Ref. [2] and Eqn (3), unless they appear as the first word of a sentence. In this case they should be typed in full as Figure 1, Reference [2] and Equation (3). Please be consistent in the use of punctuation, figures, capital letters and abbreviations, and even more importantly in nomenclature and symbols.

2.1. Title

The title should be written in 12 pt boldface letters and centered. It begins 3.5 cm below the upper edge of the sheet. It should be single spaced if the title is more than one line long.

2.2. Author

The authors name should include first name, middle initials (if any) and surname. The name(s) should be centered and 9 pt

boldface letters should be used. The single space should be between the last text line of the title and the first text line of the authors name.

2.3. Affiliation

The authors affiliation should be written in 9pt italic letters and centered.

2.4. Abstract

The abstract and keywords should have horizontal lines at the top and at the bottom. Please, make the abstract possibly short (max. 10 lines).

2.5. Keywords

The keywords should be written in 9 pt italic letters. Please, write not more than five key words, which will be used to compile the CD-ROM index.

2.6. Headings of sections

The headings should be written left aligned. The main headings should be written in 9 pt boldface letters and the secondary headings in 9 pt italic letters.

2.7. Spacing

We normally recommend the use of single line spacing. However, when typing complicated mathematical text it is important to increase the space between text lines in order to prevent sub- and super-script fonts overlapping one another and making your printed matter illegible. If you are using a desktop publishing program ensure that your auto-adjust for interline spacing is suitably set to prevent overlapping but without leaving too much space.

3. Tables and figures

Tables and figures should be arranged throughout the text and placed close to their text reference. They should have a self-contained caption and be positioned in flush-left alignment with

*Footnotes should appear on the first page only to indicate your present address (if different from your normal address), research grant, sponsoring agency, etc. These should not be numbered but referred to by symbols, e.g. *,+. The footnote text may be produced in a small font.

Table 1: Numerical results

	Horizontal displacements		Vertical displacements	
	Numerical	Analytical	Numerical	Analytical
Node A	1.003	1.000	4.003	4.000
Node B	2.002	2.000	5.002	5.000
Node C	3.001	3.000	6.001	6.000

the text margin. One single line should separate a table or a figure from the caption.

3.1. Tables

Tables should be presented in the form shown in Table 1. Their layout should be consistent throughout. If tables do not fit into one column they may be placed across both columns in which case place them at the top or at the bottom of a page.

Horizontal lines should be placed above and below table headings, above the subheadings and at the top of the table above any notes. Vertical lines should be avoided. The name of a table should appear above it. Captions should be numbered sequentially starting with number 1, i.e. Table 1: Numerical results.

3.2. Figures

All figures should be clearly displayed by leaving at least single line of spacing above and below them. When placing a figure at the top of a page, the top of the figure should be at the same level as the bottom of the first text line of other column.

All notations and lettering should be no less than 2 mm high. The use of heavy black, bold lettering should be avoided, as this will look unpleasantly dark when printed.

The name of a figure should appear below it. All figures must be numbered sequentially starting with number 1, i.e. Figure 1: Displacement fields. Please ensure that all spelling and annotations (numbers, letters, symbols and captions) conform to their usage in the text. Colour figures cannot be included in their original form and will be reproduced in black and white.

4. Equations

Equations should be placed flush-left with the text margin and should be preceded and followed by one line of white.

$$Ax^2 + Bx + C = 0 \quad (1)$$

If they are numbered make sure that they are numbered consecutively. Place the numbers in parentheses flush with the right-hand margin of the column and level with the last line of the equation. Please ensure that subscripts and superscripts are clearly

legible.

5. Page numbers

A paper will be able to be found on the CD-ROM using the authors name or a key word. The pages of each paper will be numbered independently. Please, write the page number centered at the bottom of each page (except for the first page), with 9 pt font. Pages of the abstract must not be numbered.

References

- [1] Zienkiewicz, O.C. and Taylor, R.L., *The Finite Element Method*, Vol. 1: *The Basis*, fifth ed., Butterworth-Heinemann, Oxford, 2000.
- [2] Belytschko, T., Krongauz, Y., Organ, D., Fleming, M. and Krysl, P., Meshless methods: An overview and recent developments, *Comput. Methods Appl. Mech. Engng*, 139, pp. 3-47, 1996.
- [3] Owen, D.R.J., Feng, Y.T., Mak, K.W. and Honnor, M.E., Computational modelling of large scale multiple fracturing solids and particulate systems, *Computational Mechanics New Frontiers for the New Millennium, Proceedings of the First Asian-Pacific Congress on Computational Mechanics*, Valliappan, S. and Khalili, N. Eds, Elsevier, Amsterdam, Vol. 1, pp. 117-126, 2001.

The references given above are examples of the following: 1) book, 2) paper in a journal, 3) paper in a conference proceedings. References should be collected at the end of your paper in alphabetical order. They should be prepared according to the numeric sequential system making sure that your accumulated list corresponds to the citations made in the text body and that all material mentioned is generally available to the reader. References should be quoted in the text with numbers enclosed in brackets [1], [2], [3]. References should be set in the following order: author surname, initials, title, publication, volume, page range, year.