

The title of the contribution

First author's surname and name^{*}, Second author's surname and name[†] and Third author's surname and name[†]

^{*} Department of Civil Engineering (DEC)
Faculdade de Engenharia, Universidade do Porto
Porto, Portugal
e-mail: yic2023@fe.up.pt

[†] Department of Mechanical Engineering (DEMec)
Faculdade de Engenharia, Universidade do Porto
Porto, Portugal
e-mail: yic2023@fe.up.pt

Abstract: A concise and factual abstract of about 150-200 words is required. The abstract should briefly state the purpose of the research, the principal results and major conclusions. An abstract is often presented separately from the article, so it must be able to stand alone. For this reason, avoid any reference, but if essential, then cite the author(s) and year(s).

Keywords: Granular Materials, DEM, FEM, Contact Problems, ...

1 Introduction

Extended abstracts must be written in **English**.

In the introduction of the article, the state of the art of the domain will be mentioned (by citing the corresponding references) and the objectives of the paper will be stated.

The contribution will consist of **maximum 2 pages**.

2 Extended abstract content

The International System of Units will be used.

2.1 Equations

Equations must be numbered consecutively.

$$Ax = b \tag{1}$$

2.2 Tables

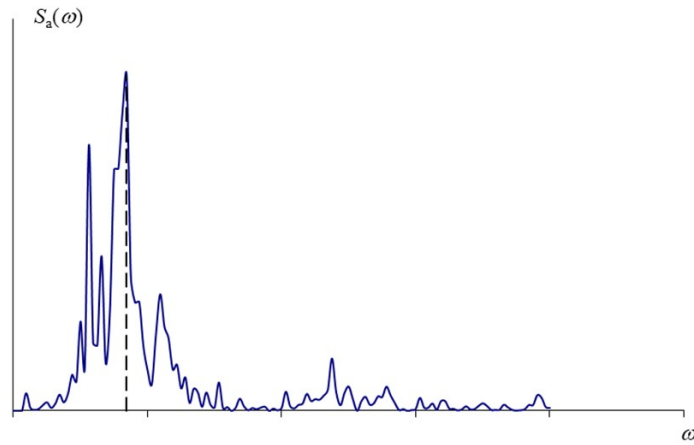
The table and the number and title of the table must be centred.

Table 1: Example of a table.

C1	C2	C3
C11	C12	C13
C21	C22	C23
C31	C32	C33
C41	C42	C43
C51	C52	C53

2.3 Figures

Figures must be centred.

**Figure 1:** Example of a figure.

Photographs, drawings, or paintings should have a minimum resolution of 300 dpi (600 dpi for colour figures). Please make sure that artwork files are in an acceptable format (TIFF (or JPEG), or EPS (or PDF)) and with the correct resolution. Do not include titles or captions within your illustrations. Fonts in the figures must be embedded.

Under no circumstance is it acceptable to change the orientation of any page to “Landscape” to accommodate an illustration or exhibit – these pages will not output properly in the proceedings volume.

All figures and tables must be referred to and described in the text.

2.4 Citation in text

The references must be cited in the text by number(s) in square brackets in line with the text [1, 2, 3]. The actual authors can be referred to, but the reference number(s) must always be given.

Number the references (numbers in square brackets) in the list in the order in which they appear in the text.

Please ensure that every reference cited in the text is also present in the reference list (and vice versa). Any references cited in the abstract must be given in full. Unpublished results and personal communications are not recommended in the reference list, but may be mentioned in the text. If these references are included in the reference list they should follow the standard reference style of the journal and should include a substitution of the publication date with either ‘Unpublished results’ or ‘Personal communication’. Citation of a reference as ‘in press’ implies that the item has been accepted for publication.

3 Conclusions

The contribution will conclude with the main results and conclusions obtained by the author(s).

4 Acknowledgements

If necessary.

References

- [1] Van der Geer J, Hanraads JAJ, Lupton RA. The art of writing a scientific article. *J Sci Commun* 2000;163:51-9.
- [2] Strunk Jr W, White EB. *The elements of style*. 3rd ed. New York: Macmillan; 1979.
- [3] Mettam GR, Adams LB. How to prepare an electronic version of your article. In: Jones BS, Smith RZ, editors. *Introduction to the electronic age*. New York: E-Publishing Inc; 1999, p. 281-304.