

# **INFRAESTRUCTURA VIAL JOURNAL UNIVERSITY OF COSTA RICA**

## **GUIDELINES FOR THE PREPARATION OF ESSAYS (OPINION ARTICLES)**

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### **SUMMARY**

The abstract should not exceed 150 words, should be self-contained and should not require reference to the article to be understood. The abstract should present the objectives and scope of the study, or the motivation for writing the article, the methodology should be described only to the extent necessary for understanding, and the conclusions should be presented in a concise and informative manner. The abstract should not contain undefined terms or acronyms, references, equations or lists.

**KEYWORDS:** It is necessary to present at least 4 keywords that help identifying the article in an archival system.

### **ABSTRACT**

Following the summary in Spanish, the same should be written in English. Do not exceed 150 words.

**KEYWORDS:** 4 keywords in English that identify the article should be presented.

### **GENERAL INSTRUCTIONS**

The present document consists of a template with the format for presenting articles. Authors are free to create their own presentation layouts according to the format provided.

Specifications on the paper title:

- The title of the paper should be representative of the content of the article.
- The maximum length of this will be 85 characters.
- Must be submitted in Spanish and English.
- Arial font, 14 pt, all caps and bold.

Papers should be written in Spanish or English using the MS Word® processor, and using The International System of Units (SI).

These documents must be peer-reviewed given their origin and importance for the contribution to knowledge.

It must include an abstract in English and Spanish of 150 words maximum, at least 5 references to bibliographic sources with a maximum of 15 are recommended.

### **Minimum requirements**

- Introduction: this section presents the introduction of the topic and general aspects, establishes the hypothesis or ideas of the discussion.
- Development: all current data and theories that support the hypothesis are presented. An orderly discussion of the elements is made, however, the analysis of the hypothesis is avoided (see next point). This section serves to give appropriate context to the discussion. It may include a small number of figures, tables and equations that support the understanding of the subject.
- Analysis: this section presents an in-depth analysis of the hypothesis according to the context of the previous section. Unlike a literature review, it not only presents the bibliographic findings but also seeks to start a *conversation* with the scientific community.
- References: this section should include the references used for the development of the article. Only works cited in the article should be included in the list; if they were not cited in the text, they should not be included. It is recommended to use current sources (maximum 5 years), unless it is required to give context to the topic. Sources from internet pages, newspapers and magazines that are not scientific should be avoided; however, they can be used to give context to the topic.

### **Page Format**

Letter size sheet (21.59 cm x 27.94 cm), with the four margins equal to 2.5 centimeters.

### **Length**

The length of the article should be between 5 and 15 pages, including tables, figures and references.

### **Text**

Text specifications:

- Font Arial, 11 pt.
- Justified type alignment for all text.
- Single space (1.0 pt) between lines.
- After a title and between paragraphs leave a space (a single line).
- All titles should be typed in Arial, 11 pt, left aligned. In addition, titles should

be typeset according to the following styles:

#### **TITLES IN FIRST ORDER**

(All capitalized, bold, on a separate line)

#### **Second Order Titles**

(Capital letters in each word, bold, on a separate line)

#### *Third Order Titles*

(Capitalization of each word, italics, on a separate line)

#### Fourth Order Titles

(Capital letters in each word, bold, on the same line as the text)

#### Tables

The titles of the tables should be placed centered above the tables. Tables should be numbered correlatively to their appearance in the text, with the following format: first, the word "Table", then the number and period (Arial, bold, 11 pt). Then the description in normal text (Arial, 11 pt). When referencing them within the text, the first letter should be capitalized (Table 1). If the table is not original (prepared from data sources that do not belong to the authors) the source should be referenced in parentheses.

**Table 1.** Example of a Table

<b>Data 1</b>	<b>Data 2</b>	<b>Data 3</b>
A	D	G
B	E	H
C	F	I

#### Figures

When articles are submitted for review, figures may be submitted inserted in the text. If the article is accepted for publication, the figures should be submitted later as separate files, in image format (.JPG, .PNG) with a minimum resolution of 300 dpi and a size of no less than 10 cm.

The titles of the Figures should be placed centered below them. Figures should be numbered correlatively to their appearance in the text, with the following format: first, the word "Figure", then the number and period (Arial, bold, 11 pt). Then the description in normal text (Arial, 11 pt). When referencing them within the text, the first letter should be capitalized (Figure 1). If the figure is not original (prepared from data sources that do not belong to the authors) the source should be referenced in parentheses.



**Figure 1.** Example of a figure

#### Equations

For the elaboration of the equations, the use of the Equation Editor application included in the Microsoft Office® software package is recommended. The equations that appear in the text will be numbered in sequential order, indicating their number to the right of the equations and in parentheses. All variables should be defined, either within the text or in a list displayed after the equation. Example:

$$N_f = k_1 \left( \frac{1}{\varepsilon_t} \right)^{k_2} \quad (1)$$

where

$N_f$  = number of repetitions at failure

$\varepsilon_t$  = applied unit strain

$k_1, k_2$  = experimentally obtained regression coefficients

## REFERENCES

References should be included in the text, indicating the author's last name (without initials) and the date of publication in parentheses.

The complete list of references should be at the end of the paper, ordered alphabetically by the last name of the first author and chronologically (first the most recent publication and annotated with index a, b, c, etc. next to the year of publication if it is repeated as well as referenced within the text). A 6-point line spacing should be left between each entry. The format of the list of references must comply with the APA 6th edition standard. The identifier number (DOI) should be included for each publication that has it.