

GUIDELINES FOR AUTHORS

Focus and Scope

UIS Ingenierías journal is the scientific biannual publication of the Faculty of Physical Mechanical Engineering Faculty of the Universidad Industrial de Santander. It is hosted on the Open Journal System (OJS) interface and it has a policy of free and Open Access. The aim of UIS Ingenierías is to publish original innovative and relevant scientific works, on specific topics of Engineering and Industrial Design.

Topics of Interest

Contributions concerning the following fields are particularly welcome: (1) connectivity and telecommunications; (2) control, modelling and simulation of systems; (3) energy; (4) ergonomics; (5) Finance and Management; (6) geomatics; (7) biomedical engineering; (8) materials engineering; (9) mechanical engineering; (10) technological innovation; (11) production and logistical operations; (12) signal and data processing; (13) water resources; (14) robotics; (15) computers, software and networking.

Type of contributions

UIS Ingenierías journal only considers the following types of articles, defined based on COLCIENCIAS standards:

Scientific and Technological Research Article. This type of paper gives a detailed account of the results of an original concluded research. It normally follows the next structure: Introduction; materials and methods; outcomes; conclusions.

Reflection Article. This paper shows and analyzes (from the author's point of view) the results of an original and concluded research that uses original sources and is developed on a specific topic.

Review Article. This paper analyzes and organizes the results of published or unpublished researches on a specific topic, in order to report on the latest developments and trends in the topic discussed. It implies an extensive literature review that includes at least 50 main sources.

Preparation of the Document

Every submission has to meet the following requirements:

1. *Macro.* Every submitted article must be presented in the format set on the LaTeX template designed by the journal.
2. *Length of the Document.* Every article must be under 15 pages, including references, acknowledges and curriculum vitae in case they are submitted.
3. *Structure and Style.* The parameters of structure and style are specified on the LaTeX template, of which a sample is given below:

Plantilla modelo para la presentación de artículos a la revista UIS Ingenierías

Sample Template for The Submission of Papers to UIS Ingenierías Journal

NAME FAMILY-NAME

Academic Title

University or Institution

institutional@email.edu.co

City, Country

Fecha de recibido: 00/00/0000

Fecha de aceptado: 00/00/0000

Forma de citar/How to cite: FAMILYNAME, Name. Title of the article in Spanish. Rev. UIS Ingenierías, 2015, vol. 00, no 0, p. 00-00.

RESUMEN

In this section you must write, in Spanish, the summary of your work. The type of summary accepted is the 'Analytical summary' which, according to COLCIENCIAS definition, gives an account of the quantitative and qualitative data of the research. It must address the objectives, methods, materials, results, and discussions involved in your research. In any case it could be over 150 words. It is not recommended to include equations, figures or tables herein.

Palabras clave: escritura; estilo; guía; modelo; plantilla.

ABSTRACT

In this section you have to write down your 'Abstract'. For that, try to check documents that provide writing style guides. You should be aware of the syntax of English Language, therefore you should avoid the excessive use of sub-ordinated sentences, which give rise to "run-on sentences". In case you decide to use a translation software, we highly recommend using some such as *linguee*, where you can find more accurate translation and examples of the use of words in context.

Keywords: writing; style; guideline; sample; template.

1 INTRODUCTION

The description of each of the sections hereby is based on the contents of "The Structure, Format, Content, and Style of a Journal-Style Scientific Paper" guidelines provided by Bates College. The function of the introduction is to establish the context of the work being submitted. It is aimed to "State the purpose of the work in the form of the hypothesis, question, or problem you investigated; and, Briefly explain your rationale and approach and, whenever possible, the possible outcomes your study can reveal" [1]. Almost literally, the introduction must answer the following questions:

- What is studied in the research reported?
- Why is it important to address this subject?
- Why is the research reported so important?
- What is the State of the Art of the studies on this subject?
- How this study contributes to the construction of new knowledge?

1.1 Style

Both the introduction and the body of the text should be written preferably using impersonal sentences. You should avoid using the first person singular or plural. To favor the cohesion and coherence of the text, it should be held using a single voice and a single tense. The preset citation and reference style of this template is the one developed by the Institute of Electrical and Electronics Engineers IEEE [2], due this style allows a better reading, without breaking the syntax of the sentences.

1.2 Structure

Usually, the structure of the Introduction can be compared with an inverted triangle. That means you should organize the information to present the more general aspects of the topic early in the Introduction, then narrow toward the more specific topical information that provides context, finally arriving at your statement of purpose and rationale. Clear statements, hypothesis and goals are mandatory to filter the information found.

2 MATERIALS AND METHODS

This section should clearly explain the procedures used for the development of the research and the obtaining of the results presented, preferably the following structure:

- Present the object or phenomenon under study. If the circumstances in which the study or analysis was performed are important, these should be mentioned.
- When a field work is performed, the characteristics of the environment should be described, including the precise location of it. You can use coordinates or maps.
- Explain how the study was structured, that is: what were the procedures, the variables measured, the samples taken and their characteristics. What was the protocol implemented for the collection and analysis of data, and which data were obtained.

2.1 Using Sub-Titles

In summary, this section should provide the readers a clear picture of the logical development of the investigation. For that purpose we recommend to approach each phase of the development of research in a different section.

2.2 Style

The content of this section should be descriptive, while Analytical and must be written in past tense, since it is reporting a process that has already been carried out. It is highly recommended to use impersonal sentences.

3 RESULTS

This section should show the main results obtained, without any interpretation. The results must respond to the hypotheses and questions posed at the beginning of the document. They also have to be registered in a logical sequential order. The use of graphic material such as figures, tables and charts is highly recommended in order to organize better the information for its analysis.

3.1 Style

This section should be written objectively and must be written in past tense. Data should be presented synthetically. Do not record the same information in tables and figures and avoid unnecessary repetition.

3.2 Samples of Graphic Resources

The following are some samples of graphic resources. Do not forget to cite the source of each:



Figure 1. Sample Figure. Source: itespresso.es

Table 1. Sample Table

Col1	Col2	Col2	Col3
1	6	87837	787
2	7	78	5415
3	545	778	7507
4	545	18744	7560
5	88	788	6344

Source: sharelatex.com

For more information about the use of images, tables and charts in LaTeX format, consult the tutorials made by organizations such as ?sharelatex.com? [3] [4]

4 DISCUSSIONS

In this section the results obtained are interpreted in light of the State of the Art. This with the aim of showing to what extent the research submitted has contributed to the understanding of the problem studied. This section should be closely related to the Introduction through the questions, hypotheses and referenced sources. Answering the following questions can help structuring the information registered:

- Do your results match the hypotheses or questions posed? If they do, How do you interpret the results?
- Do your results agree with what is stated in the existing literature on the subject? If not, do they provide an alternative explanation?
- Given the results: What is the contribution of your results to the understanding of the subject of the research?
- What investigations could result from this study?

5 ACKNOWLEDGMENTS

Acknowledgments must be addressed to people, organizations or institutions that contributed somehow to the development of your research.

5.1 Guidelines for Academic Writing

The following are some guidelines that could help you to write properly your article:

- "Frequently Asked Questions About Writing Journal Style Papers.....Just the FAQs" [5]
- Escritura académica: Errores que usted no cometerá cuando redacte su artículo científico [6]

6 REFERENCIAS

- [1] The structure, format, content, and style of a journal-style scientific paper. [Online]. Available: <http://abacus.bates.edu/~ganderso/biology/resources/writing/HTWsections.html#introduction>
- [2] *IEEE Editorial Style Manual*. [Online]. Available: https://www.ieee.org/documents/style_manual.pdf
- [3] Inserting images. [Online]. Available: https://www.sharelatex.com/learn/Inserting_Images
- [4] Tables. [Online]. Available: <https://www.sharelatex.com/learn/Tables>
- [5] Frequently asked questions about writing journal style papers.....just the faqs. [Online]. Available: <http://abacus.bates.edu/~ganderso/biology/resources/writing/HTWfaqs.html#title>
- [6] C. A. Romero-Farfán, "Escritura académica: Errores que usted no cometerá cuando redacte su artículo científico," *Cuadernos de Lingüística Hispánica*, vol. 18, pp. 79–94, 2011.