

GUIDELINES FOR PUBLICATION IN INGENIUS JOURNAL

1. General Information

INGENIUS is a scientific publication of the *Universidad Politécnica Salesiana* of Ecuador, published since January 2007, with a fixed biannual periodicity, specialized in Mechanical Engineering, Electrical Engineering, Electronics, Computer Science and its integration in what is now known as Mechatronics; these lines of action strengthen areas such as automation, control, robotics, among others..

It is a scientific journal, which uses the peer-review system, under double-blind review methodology, according to the publication standards of the Institute of Electrical and Electronics Engineers (IEEE). Compliance with this system allows authors to guarantee an objective, impartial and transparent review process, which facilitates the publication of their inclusion in reference databases, repositories and international indexing.

INGENIUS is indexed in the directory and selective catalog of the Regional Online Information System for Scientific Journals of Latin America, the Caribbean, Spain and Portugal (Latindex), in the Directory of Journals of Open Access DOAJ, In the Information Matrix for the Analysis of Journals, MIAR, In the Ibero-American Network of Innovation and Scientific Knowledge, REDIB and in repositories, libraries and specialized catalogs of Latin America.

The journal is published in a double version: printed (ISSN: 1390-650X) and digital (e-ISSN: 1390-860X), in Spanish, each work being identified with a DOI (Digital Object Identifier System). The articles sent to INGENIUS magazine must comply with the following criteria:

2. Scope and policy

2.1. Theme

Original contributions in Mechanical Engineering, Electrical and Electronic Engineering, Computer Science and its integration in what is now known as Mechatronics, as well as related areas: Automation, Control, Domotics, Robotics in their different fields of action and all those related disciplines with the same central theme.

All the work carried out by national or foreign researchers may be published once they meet the required scientific quality criteria.

2.2. Contributions

INGENIUS Journal preferably publishes articles related to empirical research, and also reports of technological development, proposals for models and innovations, products for the elaboration of graduate and postgraduate thesis that contribute to the field of science and technology, as well as select revisions of literature. (state-of-the-art).

- **Research:** 5,000 to 6,500 words of text, including title, abstracts, descriptors, charts and references.
- **Reports:** 5,000 to 6,500 words of text, including title, abstracts, charts and references.
- **Reviews:** 6,000 to 7,000 words of text, including charts and references. Current, selective and justified references, would be specially valued from among 40 works

The INGENIUS Journal publishes original and unpublished works written in Spanish and English, they may not have been published

through any printed or electronic media, nor be in the process of arbitration or publication.

Every article will be subjected to a rigorous arbitration process; the evaluation of the article will be made according to criteria of originality, relevance, relevance, contributions, scientific rigor and compliance with established editorial guidelines.

Being an arbitrated publication, the Editorial Board approves its publication based on the concept of specialized pairs. The reception of a document does not imply commitment of publication.

It is essential to present a letter of presentation and grant of rights which can be downloaded from: <http://revistas.ups.edu.ec/pdf/docs/Carta_presentación.doc>.

Contributions must be exclusively sent and through the OJS (Open Journal System) <<http://ingenius.ups.edu.ec/index.php>>. In which all authors must previously register as a user. For any consultation of the procedure you should contact:

<revistaingenius@ups.edu.ec>,
<jcalles@ups.edu.ec> ó
<mquinde@ups.edu.ec>.

3. Presentation and structure of the manuscripts

For those works that are empirical investigations, the manuscripts will follow the IMRDC structure (Introduction, Materials and Methods, Results and Discussion and Conclusions), being optional the Notes and Supports. Those papers that, on the contrary, deal with reports, studies, proposals and reviews may be more flexible in their epigraphs, particularly in material and methods, analysis, results, discussion and conclusions. In all typologies of works, references are mandatory.

Articles may be written on Micro-

soft Word (.doc or .docx) or Latex (.tex). The template to be used can be downloaded from the journal's website, a, <<http://revistas.ups.edu.ec/pdf/docs/Ings.Plantilla.doc>>, it is necessary that the file be anonymised in Properties of File, so that the author(s) ID is not displayed.

Figures, Graphs and/or Illustrations, as well as Charts shall be numbered sequentially including an explanatory description for each. The equations included in the article must also be numbered; the figures, charts and equations must be cited in the text.

Use space after point, commas and question marks.

Use "enter" at the end of each paragraph and title heading. Do not use .^{enter}. anywhere else, let the word processor program automatically break the lines.

Do not center headings or subheadings as they should be aligned to the left.

Charts must be created in the same program used for the document body, but must be stored in a separate file. Use tabs, not spaces, to create columns. Remember that the final size of printed pages will be 21 x 28 cm, so the tables must be designed to fit the final print space.

3.1. Structure of the manuscripts

1. **Título (español) / Title (inglés):** Concise but informative, in Spanish on the front line and in English on the second, when the article is written in Spanish and vice versa if it is written in English.
2. **Authors and affiliations:** Full name and surname of each author, organized by order of priority and their institutional affiliation with reference to the end of the first sheet, where it must include: Dependency to which belongs within the

institution, Institution to which he/she belongs, country, ORCID. A maximum of 5 authors will be accepted, although there may be exceptions justified by the complexity and extent of the topic.

3. **Abstract (Spanish) / Abstract (English):** It will have a maximum extension of 230 words, first in Spanish and then in English. : 1) Justification of the topic; 2) Objectives; 3) Methodology and sample; 4) Main results; 5) Main conclusions.
4. **Keywords (Spanish) / Keywords (English):** 6 descriptors must be presented for each language version directly related to the subject of the work. The use of the key words set out in UNESCO's Thesaurus will be positively valued.
5. **Introduction:** It should include the problem statement, context of the problem, justification, rationale and purpose of the study, using bibliographical citations, as well as the most significant and current literature on the topic at national and international level.
6. **Material and methods:** It must be written so that the reader can easily understand the development of the research. If applicable, it will describe the methodology, the sample and the form of sampling, as well as the type of statistical analysis used. If it is an original methodology, it is necessary to explain the reasons that led to its use and to describe its possible limitations.
7. **Analysis and results:** It will try to highlight the most important observations, describing, without making value judgments, the material and methods used. They will appear in a logical sequence in the text and the essential charts and figures avoiding the duplication of data.
8. **Discussion and Conclusions:** It will summarize the most important findings, relating the observations themselves to relevant studies, indicating contributions and limitations, without adding data already mentioned in other sections. It should also include deductions and lines for future research.
9. **Supports and acknowledgments (optional):** The Council Science Editors recommends the author (s) to specify the source of funding for the research. Priority will be given to projects supported by national and international competitive projects.
10. **The notes (optional):** will go, only if necessary, at the end of the article (before the references). They must be manually annotated, since the system of footnotes or the end of Word is not recognized by the layout systems. The numbers of notes are placed in superscript, both in the text and in the final note. The numbers of notes are placed in superscript, both in the text and in the final note. No notes are allowed that collect simple bibliographic citations (without comments), as these should go in the references.
11. **References:** Bibliographical citations should be reviewed in the form of references to the text. Under no circumstances should references mentioned in the text not be included. Their number should be sufficient to contextualize the theoretical framework with current and important criteria. They will be presented sequentially in order of appearance, as appropriate following the format of the IEEE.

3.2. Guidelines for Bibliographical references

Journal articles:

- [1] J. Riess, J. J. Abbas, "Adaptive control

of cyclic movements as muscles fatigue using functional neuromuscular stimulation". IEEE Trans. Neural Syst. Rehabil. Eng vol. 9, pp.326–330, 2001.

Books:

- [2] G. O. Young, "Synthetic structure of industrial plastics" in *Plastics*, 2nd ed., vol. 3, J. Peters, Ed. New York: McGraw–Hill, 1964, pp. 15–64.

Technical reports:

- [3] M. A. Brusberg and E. N. Clark, "Installation, operation, and data evaluation of an oblique–incidence ionosphere sounder system," in *Radio Propagation Characteristics of the Washington–Honolulu Path*, Stanford Res. Inst., Stanford, CA, Contract NOBSR–87615, Final Rep., Feb. 1995, vol. 1

Articles presented in conferences (unpublished):

- [4] Vázquez, Rolando, Presentación curso "Realidad Virtual". National Instruments. Colombia, 2009.

Articles of memories of Conferences (Published):

- [5] L. I. Ruiz, A. García, J. García, G. Taiboadá. "Criterios para la optimización de sistemas eléctricos en refinerías de la industria petrolera: influencia y análisis en el equipo eléctrico," IEEE CONCAPAN XXVIII, Guatemala 2008.

Thesis:

- [6] L.M. Moreno, "Computación paralela y entornos heterogéneos," Tesis doctoral, Dep. Estadística, Investigación Operativa y Computación, Universidad de La Laguna, La Laguna, 2005.

Guidelines:

- [7] IEEE Guide for Application of Power Apparatus Bushings, IEEE Standard C57.19.100–1995, Aug. 1995.

Patents:

- [8] J. P. Wilkinson, "Nonlinear resonant cir-

cuit devices, U.S. Patent 3 624 125, July 16, 1990.

Manuals:

- [9] Motorola Semiconductor Data Manual, Motorola Semiconductor Products Inc., Phoenix, AZ, 1989.

Internet resources:

- [10] E. H. Miller, "A note on reflector arrays" [online] IEEE Trans. Antennas Propag., vol. 53, pp. 475, 2005. Disponible en: http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=1549967&tag=1

3.3. Epigraphs, Figures and Charts

The epigraphs of the body of the article will be numbered in Arabic. They should go without a full box of capital letters, neither underlined nor bold. The numbering must be a maximum of three levels: 1. / 1.1. / 1.1.1. At the end of each numbered epigraph will be given an enter to continue with the corresponding paragraph.

The charts must be included in the text according to order of appearance, numbered in Arabic and subtitled with the description of the content, the subtitle should go at the top of the table justified to the left.

Figures can be linear drawings, maps or black and white halftone or color photographs in 300 dpi resolution. Do not combine photographs and line drawings in the same figure.

Design the figures so that they fit eventually to the final size of the journal 21 x 28 cm. Make sure inscriptions or details, as well as lines, are of appropriate size and thickness so that they are not illegible when they are reduced to their final size (numbers, letters and symbols must be reduced to at least 2.5 mm in height After the illustrations have been reduced to fit the printed page). Ideally, the linear illustrations should be prepared at about a quarter of their final publication size.

Different elements in the same figure should be spelled a, b, c, etc.

Photographs should be recorded with high contrast and high resolution. Remember that photographs frequently lose contrast in the printing process. Line drawings and maps should be prepared in black.

The text of the figures and maps must be written in easily legible letters.

If the figures have been previously used, it is the responsibility of the author to obtain the corresponding permission to avoid subsequent problems related to copyright.

Each figure must be submitted in a separate file, either as bitmap (.jpg, .bmp, .gif, or .png) or as vector graphics (.ps, .eps, .pdf).

4. Submission process

The manuscript must be sent through the OJS system of the journal, <<http://ingenius.ups.edu.ec/index.php/ingenius/index>>, the manuscript should be uploaded as an original file in .pdf without author data and anonymized according to the above; In complementary files the complete manuscript must be loaded in .doc or .docx (Word file), that is to say with the data of the author (s) and its institutional ascription; Also the numbered figures should be uploaded in independent files according to the corresponding in the manuscript (as bitmap .jpg, .bmp, .gif, or .png or as vector graphics .ps, .eps, .pdf). It is also obligatory to upload the cover letter and grant of rights as an additional file.

All authors must enter the required information on the OJS platform and only one of the authors will be responsible for correspondence.

Once the contribution has been sent the system will automatically send the author for correspondence a confirmation email of receipt of the contribution.

5. Editorial process

Once the manuscript has been received in OJS, a first check by the editorial team of the following points:

- The topic is in accordance with the criteria of the journal.
- Must have the IMRDC structure.
- Must be in the INGENIUS format.
- Must use the IEEE citation format.
- All references should be cited in the text of the manuscript as well as charts, figures and equations.
- The manuscript is original; for this, software is used to determine plagiarism.

The assessment described above can take up to 4 weeks.

If any of the above is not complete or there is inconsistency, an email will be sent to the author to make the requested corrections.

The author will make the corrections and re-send the contribution through an email in response to the notification and will also upload the corrected manuscript into OJS supplementary files.

The editorial team will verify that the requested corrections have been incorporated, if it complies, the manuscript will start the second part of the process that may be followed by the author through OJS, otherwise the author will be notified and the manuscript will be archived.

The second phase of the process consists of the evaluation under the methodology of double-blind review, which includes national and foreign experts considering the following steps:

- The editor assigns two or more reviewers for the article.
- After reviewing the article, the reviewers will submit the evaluation report with one of the following results.
 - Publishable

- Publishable with suggested changes
 - Publishable with mandatory changes
 - Non publishable
- The editor once received the evaluation by the reviewers will analyze the results and determine if the article is accepted or denied.
 - If the article is accepted, the author will be notified to make corrections if required and the corresponding editorial process will be continued.
 - If the article is denied, the author will be notified and the manuscript will be archived.
 - In the two previous cases the result of

the evaluation of the reviewers and their respective recommendations will be sent.

The second phase of the process lasts at least 4 weeks, after which they will be notified to the author giving instructions to continue with the process.

6. Publication

The INGENIUS Journal publishes two issues per year, on January 1st and July 1st, so it is important to consider the dates for sending the articles and their corresponding publication. Articles received until October will be considered for the January publication and those received until April for the July publication.