

REGULAR ARTICLE

Long Title for SJS Article

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Abstract: Add your article abstract here, up to 250 words.

Keywords: keyword1, keyword2, keyword3, . . . , keyword10

MSC: 60E05, 62P99

1 Introduction

This template provides a guide to formatting articles for submission to the Spanish Journal of Statistics (SJS), accessible at <http://www.ine.es>. When preparing an article for submission, please follow this template closely. This journal supersedes and continues the former publication *Revista Estadística Española* in the same URL (<http://www.ine.es>).

2 Author guidelines

2.1 Manuscript submission

The Spanish Journal of Statistics (SJS) publishes original papers in the theory and applications of Statistics. A PDF electronic version of the manuscript should be submitted to José María Sarabia, Editor-in-chief of SJS via email to sjs@ine.es.

Submissions will only be considered in English. Manuscripts must be original contributions which are not under consideration for publication anywhere else. Its contents have been approved by all authors. A single-blind refereeing system is used, so the identity of the referees is not communicated to the authors. Manuscripts that exceed 30 journal pages are unlikely to be considered for publication.

2.2 Manuscript preparation

Manuscripts must be written in English in a clear, direct, and active style. All pages must be numbered sequentially. The manuscript should be submitted as a PDF file based on this L^AT_EX template. Upon final acceptance, the tex source file and auxiliary files will be requested to the authors.

2.3 Title

The title should be concise, and must not be more than 20 words. Authors should also provide a short “running title”.

2.4 Authors and institutional affiliations

Authors are required to provide their full names and their institutional affiliations, omitting postal addresses but including email addresses.

2.5 Abstract

The abstract should summarize the essential features of the article, and must not exceed 250 words. Abbreviations should be avoided in the abstract, and references should not be cited in the abstract.

2.6 Keywords

Your submission must include between five and ten keywords for your article. They must be arranged comma-separated.

2.7 MSC codes

Up to four Mathematics Subject Classification (MSC) codes should be provided.

2.8 Copyright

Authors will be asked, upon acceptance of an article, to transfer copyright of the articles to the Spanish National Statistical Institute (INE). This entails full copyright protection and wide dissemination of the articles and the journal in any format.

2.9 Main Text

The main text should be divided into separate sections, and may be further subdivided according to the areas to be discussed. The manuscript style must be uniform throughout the text using 11pt Palatino font. The first appearance of any abbreviations in the text should be preceded by the full term, unless it is a standard abbreviation or unit of measurement. Reference numbers should be given in square brackets in the text. Common or assimilated words from Latin or other languages should not be italicized, including *per se*, *et al.*

2.10 Style

Many examples of the journal style can be seen in existing SJS published articles, <http://www.ine.es>. Please pay particular attention to the following style requirements:

- Spelling: Please use standard American English spelling throughout.
- Punctuation: SJS uses standard American English punctuation. In particular, please ensure:
 - all lists items are always separated by punctuation (e.g., “a, b, and c” but not “a, b and c”); and
 - commas and periods always appear inside quotation marks (e.g., “x, y, and z.” but not “x, y, and z”).
- Capitalization: SJS style is to only use capitals only for the beginning of sentences, proper nouns, names (e.g., Norman, ArcMap) and, where appropriate, acronyms (e.g., GIS). Please avoid capitalization of other words (e.g., “geographic information systems (GIS)” but not “Geographic Information Systems (GIS)”) and in titles, including section headings (e.g., “Affordance-based individuation of junctions in Open Street Map” but not “Affordance-Based Individuation of Junctions in Open Street Map”).

2.11 Figures

Figures and Tables must be numbered consecutively with a concise explanatory caption, and must be referred to in the main text with capitalized reference (e.g., “Figure 1” or “Table 1”). Figures and Tables must appear in the text close to where they are first referred to in the main text. Figure and table captions come below the figure or table. Do not collect figures or tables together at the end of the article. Authors of accepted articles will need to supply high quality versions of all figures as separate .eps (encapsulated postscript) files.

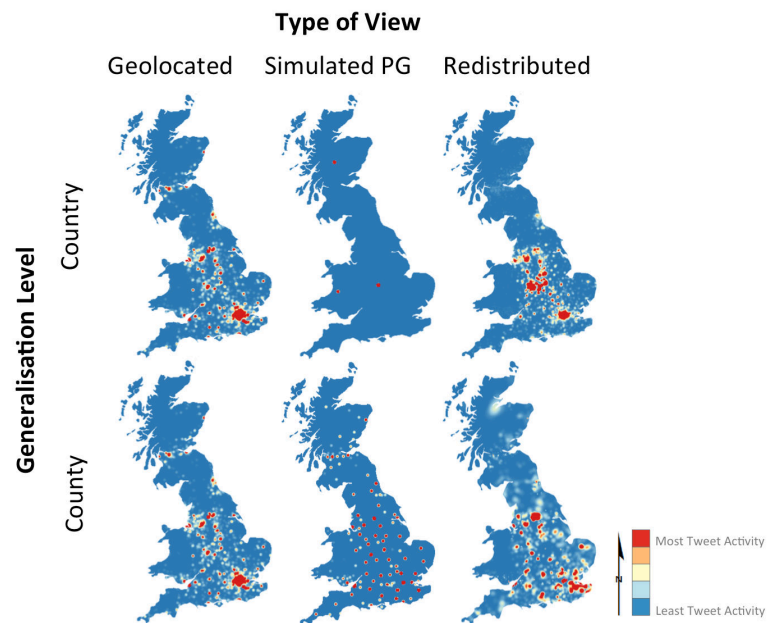


Figure 1: An illustrative figure, after Huck et al. (2015).

2.12 Algorithms

Algorithms should be formatted using standard algorithm packages where possible, as in Algorithm 1.

Text column	Numerical column 1	Numerical column 2
First row	10	0.003
Second row	52	10.037
Third row	729	150.315
...

Table 1: Example table with preferred line rules and alignment.

Algorithm 1 Example algorithm formatting after Zhong and Duckham (2016)**Require:** A finite set of two-dimensional points $P \subset \mathbb{R} \times \mathbb{R}$ and one parameter $\lambda \in \mathbb{R}$

- 1: Construct the Delaunay triangulation $DT(P)$ of P
- 2: $\Delta \leftarrow DT(P)$
- 3: Construct the list B of exterior edges of $DT(P)$
- 4: Sort the list B in descending order of edge length
- 5: Initialize the v -boundary function
- 6: Set the root (r) of $\mathbf{T}_\chi(P, \lambda)$ to be $\{\text{edge} = \emptyset, \text{oppositeVertex} = \emptyset, \text{length} = \emptyset\}$
- 7: Construct the list of parent nodes (PN) for the elements in B
- 8: Set each element in PN to be r
- 9: $O(P, \lambda) \leftarrow \emptyset$
- 10: **while** B is not empty **do**
- 11: $e = \{d_1, d_2\} \leftarrow \text{pop}(B)$
- 12: $p \leftarrow \text{pop}(PN)$
- 13: $o \leftarrow$ opposite vertex of e in Δ
- 14: $N \leftarrow \{\text{edge} = e, \text{oppositeVertex} = o, \text{length} = \|e\|\}$
- 15: Insert N in $\mathbf{T}_\chi(P, \lambda)$ as a child of p
- 16: $\text{node}(d_1) \leftarrow N$
- 17: $\text{node}(d_2) \leftarrow N$
- 18: Append N to $O(P, \lambda)$
- 19: **if** $\|e\| > \lambda$ **and** $v\text{-boundary}(o) = \text{false}$ **then**
- 20: Remove e from Δ
- 21: $v\text{-boundary}(o) = \text{true}$
- 22: Insert the arms of e in Δ into B in order of edge length
- 23: Insert N into PN at the corresponding position of the arms of e in B
- 24: **end if**
- 25: **end while**
- 26: **Return** $\chi(P, \lambda)$ formed by leaves of $\mathbf{T}_\chi(P, \lambda)$, $DT(P)$, $\mathbf{T}_\chi(P, \lambda)$ and $O(P, \lambda)$

2.13 Footnotes

Footnotes are strongly discouraged in text. Where footnotes must be used, they should be numbered consecutively.

3 References

References should not be numbered but must follow the Chicago bibliographical style:

1. In the text, only the authors' surnames should be given, followed by the year of publication in parentheses. For three or more authors, only the first surname should be given, followed by et al.
2. The references should be listed in alphabetical order of surnames at the end of the text in the section named "References".

Examples of citation styles included in the bibliography for this document include journal articles (Over et al., 2010; Arkin et al., 1991), authored books (Bailey and Gatrell, 1995), edited books (Miller and Han, 2009), articles in proceedings (Champion et al., 2011), articles in books or collections (Grosso et al., 2012), theses (Ruas, 1999), technical reports (Blaser, 1998), software (R Core Team, 2019) and web resources (Argosy Publications, 2008). Please check the bib file sjsexample.bib provided with this template.

DOIs

All SJS articles must list the DOI of all references, where a DOI exists, see <http://www.ine.es> for examples. Please check carefully to add the DOIs for cited references, adding DOIs to all references that have one. DOIs may be added in the “doi” field of the bibtex file.

DOIs can be found via <http://www.crossref.org/guestquery/> as well as many other search engines and publisher pages (e.g., Scopus, SpringerLink).

Acknowledgments

Acknowledgments should be placed in an unnumbered separate section before the References. The names of funding organizations should be written in full. It is recommended to use the following format:

This work was supported by the FUNDING SOURCE [grant number XXX]; FUNDING SOURCE [grant number YYY]; and FUNDING SOURCE [grant number ZZZ]

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