

Title

Firstname1 Lastname1^a, Firstname2 Lastname2^a, and Firstname3 Lastname3^b

^aDepartment of A, A University, City, Country.

^bDepartment of B, B University, City, Country.

ARTICLE HISTORY

Received: xx xx 2021

Accepted: xx xx 2021

KEYWORDS

keyword 1; keyword 2; keyword 3 (List three to eight pertinent keywords specific to the article. Read making your article more discoverable, including information on choosing a title and search engine optimization.)

ABSTRACT

A single paragraph of about 300 words maximum. For research articles, abstracts should give a pertinent overview of the work. We strongly encourage authors to use the following style of structured abstracts, but without headings: (1) Background: place the question addressed in a broad context and highlight the purpose of the study; (2) Methods: describe briefly the main methods or treatments applied; (3) Results: summarize the article's main findings; (4) Conclusions: indicate the main conclusions or interpretations. The abstract should be an objective representation of the article, it must not contain results which are not presented and substantiated in the main text and should not exaggerate the main conclusions.

CONTACT: Firstname2 Lastname2 ✉: e-mail@e-mail.com

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1 Introduction

This document shows the required format and appearance of a manuscript prepared for submission to the journal of Geo-spatial Information Science Journal (GSIS). It is prepared using LaTeX2e with the class file `gsis.cls`. Note that this template is only intended to be used as a guideline for author convenience. It is designed for optimum clarity and ease of reading for editors and reviewers, but the template does not reflect the final page layout of a published journal paper. Accepted papers are professionally typeset in XML according to the layout and design of the journal.

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2 Methods

Methods should be described with sufficient details to allow others to replicate and build on published results. Please note that publication of your manuscript implicates that you must make all materials, data, computer code, and protocols associated with the publication available to readers. Please disclose at the submission stage any restrictions on the availability of materials or information. New methods and protocols should be described in detail while well-established methods can be briefly described and appropriately cited.

2.1 Formatting of Mathematical Components

For those of your equations that you wish to be automatically numbered sequentially throughout the text for future reference, use the `equation` environment. For example:

From the degradation model of the image, we can know the relationship between the images before and after the degradation in image reconstruction as:

$$g(x_1, y_2) = \sum_{(x_0, y_0)} f(x_0, y_0)h(x_0, y_0; x'_1, y'_1) + n(x_1, y_1), \quad (1)$$

where $g(x_1, y_2)$ is degraded image, $h(x_0, y_0; x'_1, y'_1)$ is the point spread function at point (x_0, y_0) in the degenerate model, $f(x_0, y_0)$ is the original high-resolution image, and $n(x_1, y_1)$ is the possible additive noise.

Equations should be cited by `\eqref{}` command, which produces a citation as “Equation (1)”.

The text continues here.

Theorem-type environments (including propositions, lemmas, corollaries etc.) can be formatted via the `Theorem` environment as follows:

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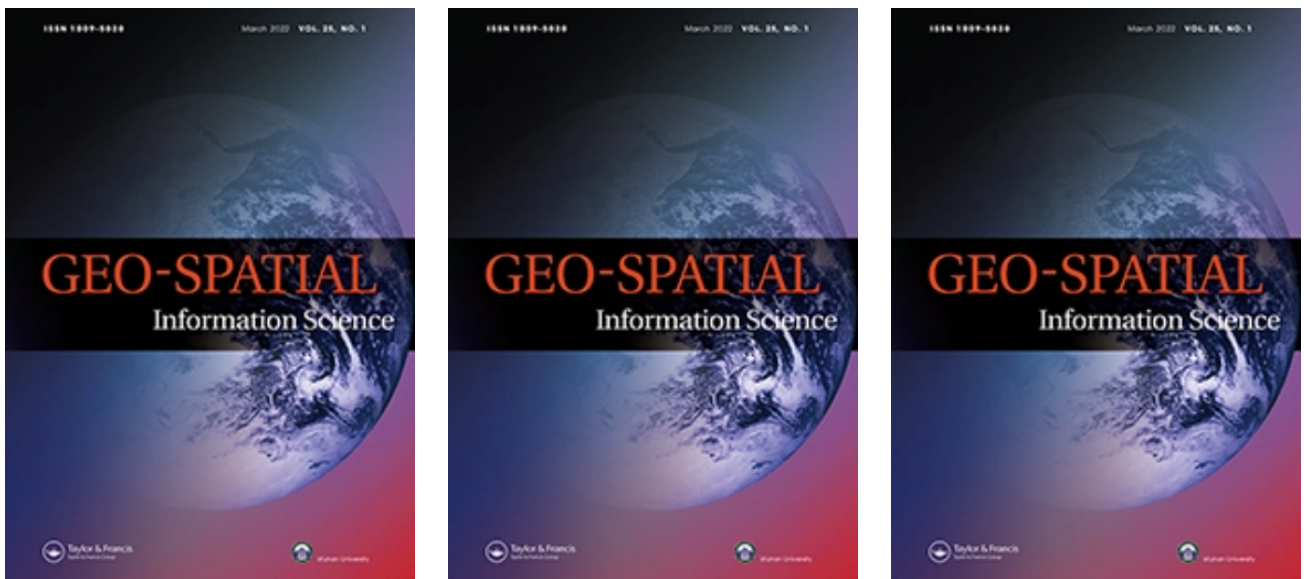
The text continues here.

3 Results

This section may be divided by subheadings. It should provide a concise and precise description of the experimental results, their interpretation as well as the experimental conclusions that can be drawn.

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(b) the cover image of Geo-Spatial Information Science journal

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Figure 1 Example of a three-part figure with individual sub-captions showing that captions are flush left and justified if greater than one line of text. (Note: Figures must be provided separate to text when submitting. Minimum 1200 dpi for line art; Minimum 600 dpi for greyscale; Minimum 300 dpi for colour.)

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Table 1 Some very informative caption.

1st Column	2nd Column	3rd Column	4th Column
QWERTY ¹			
ASDFGH ²			

¹qwerty; ²asdfgh

The `threeparttable` environment can be used as shown to create tables with single horizontal rules at the head, foot and elsewhere as appropriate. The captions appear above the tables in the `gsis` style, and the `tablenotes` environment can be used to list detailed explanations beneath the table.

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References should be cited in Chicago author-date style, e.g. ‘(Dongyu Yao 2024)’, ‘(Bätz et al. 2015; Gao et al. 2013)’. For further details on this reference style, please see the Instructions for Authors on the Taylor & Francis website. Each bibliographic entry has a key, which is assigned by the author and is used to refer to that entry in the text.

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Each entry takes the form:

```
\bibitem[authors’ names(date of publication)]{key}
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4 Conclusion

Authors should discuss the results and conclude how they can be interpreted from the perspective of previous studies and of the working hypotheses. The findings and their implications should be discussed in the broadest context possible. Future research directions may also be highlighted.

Data availability statement

The data that support the findings of this study are available from [third party]. Restrictions apply to the availability of these data, which were used under license for this study. Data are available [from the authors/at URL] with the permission of as [third party].

Disclosure statement

The authors declare that they have no known competing financial interests or personal relationships that could have appeared to influence the work reported in this paper.

Funding

Please add: “This research received no external funding” or “This research was funded by NAME OF FUNDER grant number XXX.” and “The APC was funded by XXX”. Check carefully that the details given are accurate and use the standard spelling of funding agency names at <https://search.crossref.org/funding>, any errors may affect your future funding.

Author contributions

CRedit: **Firstname1 Lastname1**: Data curation,, Writing-original draft; **Firstname2 Lastname2**: Conceptualization,, Writing-review & editing; **Firstname3 Lastname3**: Formal analysis,, Writing-review & editing.

Notes on contributor(s)

Firstname1 Lastname1 is an associate professor in Dept. of xxx ... He received the PhD degree from ... His research interests are ...

Firstname2 Lastname2 received her PhD degree from ...

Firstname3 Lastname3 is an xxx member and an associate professor ...

ORCID

Firstname1 Lastname1 <https://orcid.org/0000-0001-6190-9072>

Firstname2 Lastname2 https://orcid.org/0000-0001-***8-**

Firstname3 Lastname3 https://orcid.org/0000-0001-****-**

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