

Declaration of Generative AI Usage

1. General Policy

The IJG supports the responsible and transparent use of Artificial Intelligence (AI) tools in scholarly research and manuscript preparation. Authors are required to disclose any use of AI-based tools to ensure research integrity, transparency, and accountability.

- AI tools **must not be listed as authors**, and their use does not diminish the authors' full responsibility for the content of the manuscript.
- The human authors are fully responsible and liable for the content of their manuscript, including any parts produced or edited by AI tools. Authors are responsible for ensuring that AI-generated content is accurate, free from plagiarism, and properly cited.

2. Mandatory AI Use Declaration

All submissions must include an **AI Use Declaration**, regardless of whether AI tools were used.

- If AI tools were used, authors must clearly describe **how and for what purpose**.
- If no AI tools were used, authors must explicitly state this.

Failure to provide a clear declaration may result in **desk rejection** or requests for revision prior to peer review.

3. Scope of AI Tools Requiring Disclosure

AI tools include, but are not limited to:

- Large Language Models (LLMs) for text generation or editing
- Machine learning or deep learning models for data analysis or prediction
- AI-based image processing, classification, or enhancement tools
- AI-assisted code generation or debugging tools
- AI-powered literature search or summarization tools

Routine use of standard software (e.g., GIS platforms, statistical packages) **does not require disclosure**, unless AI or ML modules were explicitly employed.

4. Acceptable and Unacceptable Uses of AI

Acceptable Uses (with disclosure)

- Language editing or grammar correction
- Assistance in coding or data processing
- Exploratory data analysis or model development under human supervision

Unacceptable Uses

- Generating or fabricating data, results, or images
- Manipulating figures or results in a misleading manner
- Replacing critical scientific reasoning, interpretation, or conclusions
- Submitting AI-generated content without human verification

5. Required Content of the AI Use Declaration

The declaration must include:

- Name of the AI tool(s) used
- Purpose and scope of use
- Level of human oversight and verification
- A statement confirming author responsibility for all content

6. Placement of the Declaration

- The AI Use Declaration should be included in “**Use of Artificial Intelligence**” section
- The declaration must **not** appear in the abstract.

7. Ethical and Legal Responsibilities

Authors must ensure that:

- AI use complies with copyright, licensing, and data protection regulations
- Confidential, proprietary, or sensitive data were not uploaded to AI tools without authorization
- AI-generated content does not violate plagiarism or publication ethics policies

Authors bear full responsibility for ensuring originality, accuracy, and ethical compliance.

8. Declaration Templates

AI Used (Language Editing Only)

The authors declare that an AI-based tool was used solely for language editing and grammatical refinement. All scientific content, interpretations, and conclusions were developed and verified by the authors.

AI Used (Data Analysis or Modeling)

The authors declare that AI-based methods were used for data analysis in this study. Model design, parameter selection, validation, and interpretation of results were conducted by the authors.

No AI Used

The authors declare that no artificial intelligence tools were used in the preparation of this manuscript.