

The aidisclose package

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Abstract

The `aidisclose` package provides a standardized, transparent mechanism for declaring the use of Generative Artificial Intelligence (GAI) tools in academic, technical, and professional documents. It implements the *GAIDeT (Generative AI Delegation Taxonomy)* [2] and automates the creation of disclosure statements and checklists.

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1 Introduction

`aidisclose` is designed to support emerging ethical, institutional, and publisher requirements concerning AI-assisted content creation. It allows authors to:

- Select specific tasks delegated to Generative AI (GAI) from the GAIDeT taxonomy [2] (e.g., idea generation, data cleaning, text summarization).
- List the specific GAI tools used (e.g., ChatGPT, Gemini, Claude).
- Add optional explanatory comments (numbered or unnumbered).
- Automatically generate a formatted “*Disclosure of Delegation to Generative AI*” section/chapter.
- Automatically handle citations for the taxonomy and the package itself.

2 Package Loading and Options

Load the package in your document preamble:

```
\usepackage[<options>]{aidisclose}
```

2.1 Options

The package currently supports the following key-value option:

`autobib=true|false` (Default: `true`)

When enabled, the package automatically:

1. Writes a `aidisclose.bib` file containing the references for GAIDeT [2] and this package [1].
2. Loads this bibliography resource (compatible with `biblatex` and standard `BibTeX`).

Set this to `false` if you wish to manage these citations manually in your own `.bib` file.

3 Internationalization

The package automatically detects the document language (via `babel` or `polyglossia`) and loads the corresponding translation file (`.ldf`).

Currently (v1.6.0) Supported Languages:

- English (**en**)
— Default
- Portuguese (**pt**)
- Spanish (**es**)
- French (**fr**)
- German (**de**)
- Italian (**it**)
- Dutch (**nl**)
- Danish (**dk**)
- Greek (**gr**)
- Czech (**cz**)
- Polish (**pl**)
- Slovak (**sk**)
- Ukrainian (**uk**)
- Catalan (**cat**)

If the detected language is not supported, the package falls back to English.

4 Usage

The declaration process consists of two steps: **Configuration** (defining what was done) and **Rendering** (printing the declaration).

4.1 Configuration

Configuration commands can be placed in the preamble or in the document body before the rendering command is called.

4.1.1 Activating Taxonomy Items

Use `\GAIActivate{}` to check specific items in the taxonomy. See Section 5 for all available keys.

```
% Example: Activating "Idea generation" and "Code optimization"  
\GAIActivate{c:idea}  
\GAIActivate{s:opt}
```

4.1.2 Specifying Tools

Use `\GAIToolsUsed{}` to list the AI tools employed. The package handles formatting (singular/plural) automatically.

```
% Example 1: No tools used  
\GAIToolsUsed{  
  
% Example 2: Multiple tools  
\GAIToolsUsed{ChatGPT-4, Gemini Advanced, Claude 3}
```

4.1.3 Adding Comments

Use the `GAIcomment` (numbered) and `GAIcomment*` (unnumbered) environments for details. Comments may contain multiple paragraphs.

```
\begin{GAIcomment}
The AI was used primarily for refining the code in Section 3.
\end{GAIcomment}

\begin{GAIcomment*}
No GAI tools were used for data analysis.
\end{GAIcomment*}
```

4.1.4 Customizing the Title

Change the default section title and hierarchy level using `\GAIdiscloseTitle`.

```
\GAIdiscloseTitle[Short Title]{Full Title}[section-level]
```

- **section-level:** Defaults to `\chapter` if defined, otherwise `\section`.

4.1.5 Visual Customization

- **Checkmark Symbol:** `\GAIsetCheckmarkSymbol{\texttimes}` (default is `\checkmark`).
- **Font Size:** `\GAIsetChecklistFontSize{\small}` (default is `\smaller`, meaning: *slightly smaller than the current font size*).

4.2 Rendering the Declaration

Place the `\GAIREnderDeclaration` command where you want the disclosure to appear (e.g., after the Conclusion or before References).

```
\GAIREnderDeclaration[<columns>]{<authors>}
\GAIREnderDeclaration*[<columns>]{<authors>}
```

- **Star variant (*):** Renders the checklist *without* the section heading.
- **<columns>:** Number of columns for the checklist (default: 3).
- **<authors>:** Comma-separated list of (document) authors declaring the use of AI.

5 Taxonomy Keys

Use these keys with `\GAIActivate{}`. Derived from the GAIDeT taxonomy [2].

Key	Description
Conceptualization	
c:idea	Idea generation
c:objective	Defining the research objective
c:rq	Formulating research questions and hypotheses
c:feas	Feasibility assessment and risk evaluation
c:pretest	Preliminary hypothesis testing
Literature Review	
l:search	Literature search and systematization
l:write	Writing the literature review
l:patents	Analysis of market trends/patent environment
l:gaps	Novelty evaluation and gap identification
Methodology	
m:design	Research design
m:protocols	Experimental or research protocols
m:methods	Selection of research methods
Software Development	
s:codegen	Code generation
s:opt	Code optimization
s:auto	Process automation
s:algs	Algorithms for data analysis
Data Management	
d:collect	Data collection
d:validate	Validation
d:clean	Data cleaning
d:curate	Data curation and organization
d:analyze	Data analysis
d:viz	Visualization
d:repro	Reproducibility testing
Writing and Editing	
w:textgen	Text generation
w:proof	Proofreading and editing
w:summarize	Summarizing text
w:concl	Formulation of conclusions
w:tone	Adapting and adjusting emotional tone
w:translate	Translation

w:reformat	Reformatting
w:press	Press releases and outreach materials
<hr/>	
Ethics & Supervision	
e:bias	Bias analysis and discrimination assessment
e:risk	Ethical risk analysis
e:compliance	Compliance monitoring
e:conf	Data confidentiality monitoring
sup:qa	Quality assessment
sup:trends	Trend identification
sup:limits	Identification of limitations
sup:recs	Recommendations
sup:pub	Publication support
<hr/>	

6 Example Output

Below is an example of a rendered declaration. The configuration used is:

```
% Configuration
\GAIActivate{c:idea}
\GAIActivate{c:rq}
\GAIActivate{l:search}
\GAIActivate{l:write}
\GAIActivate{s:auto}
\GAIActivate{d:analyze}
\GAIActivate{w:summarize}
\GAIActivate{w:reformat}

\GAIToolsUsed{ChatGPT-4o, Gemini 1.5 Pro, GitHub Copilot}

\begin{GAIComment}
AI was used for refining code structure in Section~4.
\end{GAIComment}
```

7 Disclosure of Delegation to Generative Artificial Intelligence

Jane Doe and John Smith declare¹ the use of Generative AI in the research work and writing process of this document. According to the GAIDeT taxonomy [2], the following tasks were delegated to Generative AI tools under full human supervision:

Conceptualization

- | | | |
|----------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Idea generation | <input checked="" type="checkbox"/> Formulating research questions and hypotheses | <input type="checkbox"/> Feasibility assessment and risk evaluation |
| <input type="checkbox"/> Defining the research objective | | <input type="checkbox"/> Preliminary hypothesis testing |

Literature Review

- | | | |
|---------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Literature search and systematization | <input type="checkbox"/> Analysis of market trends and/or patent environment | <input type="checkbox"/> Evaluation of novelty and identification of gaps |
| <input checked="" type="checkbox"/> Writing the literature review | | |

Methodology

- | | | |
|------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------|
| <input type="checkbox"/> Research design | <input type="checkbox"/> Development of experimental or research protocols | <input type="checkbox"/> Selection of research methods |
|------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------|

Software Development and Automation

- | | | |
|--------------------------------------------|--------------------------------------------------------|-------------------------------------------------------------------|
| <input type="checkbox"/> Code generation | <input checked="" type="checkbox"/> Process automation | <input type="checkbox"/> Creation of algorithms for data analysis |
| <input type="checkbox"/> Code optimization | | |

Data Management

- | | | |
|------------------------------------------|---------------------------------------------------------|--------------------------------------------------|
| <input type="checkbox"/> Data collection | <input type="checkbox"/> Data curation and organization | <input type="checkbox"/> Visualization |
| <input type="checkbox"/> Validation | <input checked="" type="checkbox"/> Data analysis | <input type="checkbox"/> Reproducibility testing |
| <input type="checkbox"/> Data cleaning | | |

Writing and Editing

- | | | |
|------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|
| <input type="checkbox"/> Text generation | <input type="checkbox"/> Formulation of conclusions | <input type="checkbox"/> Translation |
| <input type="checkbox"/> Proofreading and editing | <input type="checkbox"/> Adapting and adjusting emotional tone | <input checked="" type="checkbox"/> Reformatting |
| <input checked="" type="checkbox"/> Summarizing text | | <input type="checkbox"/> Press releases and outreach materials |

¹This declaration was generated using pdfL^AT_EX and the L^AT_EX package `aidisclose` [1].

Ethics Review

☐ Bias analysis and discrimination assessment

☐ Ethical risk analysis
☐ Monitoring compliance with ethical standards

☐ Data confidentiality monitoring

Supervision

☐ Quality assessment

☐ Identification of limitations

☐ Recommendations

☐ Trend identification

☐ Publication support

Generative AI tools used: No Generative AI tools were declared.

Additional comment #1: AI was used for refining code structure in Section 4.

References

- [1] João M. Lourenço. *The **aidisclose** package: Generative AI disclosure checklist and statements*. Version 1.6.0. 2025. URL: <https://ctan.org/pkg/aidisclose>.
- [2] Yana Suchikova et al. “GAIDeT (Generative AI Delegation Taxonomy): A Taxonomy for Humans to Delegate Tasks to Generative Artificial Intelligence in Scientific Research and Publishing”. In: *Accountability in Research* (2025), pp. 1–27. DOI: [10.1080/08989621.2025.2544331](https://doi.org/10.1080/08989621.2025.2544331).