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.

Contents

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

	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

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 declare[1] the use of Generative AI in the research work and writing process of this document. According to the GAIDeT tax-

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[1] This declaration was generated using pdfLATEX and the LATEX package `aidisclose` [1].

onomy [2], the following tasks were delegated to Generative AI tools under full human supervision:

Conceptualization

- ☑ Idea generation
- ☐ Defining the research objective
- ☑ Formulating research questions and hypotheses
- ☐ Feasibility assessment and risk evaluation
- ☐ Preliminary hypothesis testing

Literature Review

- ☑ Literature search and systematization
- ☑ Writing the literature review
- ☐ Analysis of market trends and/or patent environment
- ☐ Evaluation of novelty and identification of gaps

Methodology

- ☐ Research design
- ☐ Development of experimental or research protocols
- ☐ Selection of research methods

Software Development and Automation

- ☐ Code generation
- ☐ Code optimization
- ☑ Process automation
- ☐ Creation of algorithms for data analysis

Data Management

- ☐ Data collection
- ☐ Validation
- ☐ Data cleaning
- ☐ Data curation and organization
- ☑ Data analysis
- ☐ Visualization
- ☐ Reproducibility testing

Writing and Editing

- ☐ Text generation
- ☐ Proofreading and editing
- ☑ Summarizing text
- ☐ Formulation of conclusions
- ☐ Adapting and adjusting emotional tone
- ☐ Translation
- ☑ Reformatting
- ☐ Press releases and outreach materials

Ethics Review

- ☐ Bias analysis and discrimination assessment
- ☐ Ethical risk analysis
- ☐ Monitoring compliance with ethical standards
- ☐ Data confidentiality monitoring

Supervision

- [ ] Quality assessment
- [ ] Trend identification
- [ ] Identification of limitations
- [ ] Recommendations
- [ ] 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.