

# The `aidisclose` package

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<https://github.com/joaomlourenco/aidisclose>

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## 1 Introduction

`aidisclose` is a L<sup>A</sup>T<sub>E</sub>X package providing a standardized, transparent mechanism for declaring the use of Generative Artificial Intelligence (GAI) tools in academic, technical, and professional documents.

The package is designed to support emerging ethical, institutional, and publisher requirements concerning AI-assisted content creation. It implements the *GAIDeT* (*Generative AI Delegation Taxonomy*), as proposed by Suchikova et al. 2025 [2].

This package allows authors to:

- Select specific tasks delegated to AI from the predefined taxonomy (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, including the necessary responsibility statements.
- Optionally skip automatic section title generation for custom document structures.

## 2 Usage

To use the package, load it in your document preamble:

```
\usepackage{aidisclose}
```

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

## 2.1 Configuration

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

### 2.1.1 Activating Taxonomy Items

Use the `\GAIactivate{}` command to check specific items in the taxonomy. A full list of available keys is provided in Section 3.

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

### 2.1.2 Specifying Tools

Use the `\GAItoolsUsed{}` command to list the AI tools employed. The package automatically formats the output sentence based on the number of tools provided (handling singular/plural forms and commas).

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

### 2.1.3 Adding Comments

The package provides two comment environments: `GAIcomment` (numbered) and `GAIcomment*` (unnumbered).

```
% Numbered comment  
\begin{GAIcomment}  
The AI was used primarily for refining the code in Section 3,  
but the algorithm logic was derived manually.  
\end{GAIcomment}  
  
% Unnumbered comment  
\begin{GAIcomment*}
```

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

#### 2.1.4 Customizing the Title

You can change the default title of the declaration section using `\GAIdiscloseTitle`.

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

The last (optional) argument `section-level` defaults to `\chapter` if `\chapter` is defined (e.g., in book-like documents), otherwise defaults to `\section`.

You can retrieve the stored titles using:

```
\GAIdiscloseTitleLong % Full title  
\GAIdiscloseTitleShort % Short title
```

#### 2.1.5 Customizing the Checkbox Symbol

You can change the symbol used inside checkboxes with `\GAIsetCheckmarkSymbol{}`. The package automatically recalculates box width to ensure proper alignment.

```
\GAIsetCheckmarkSymbol{\checkmark} % Default  
\GAIsetCheckmarkSymbol{\texttt{x}} % Use x instead
```

#### 2.1.6 Customizing the Font Size

Change the font size used for the checklist:

```
\GAIsetChecklistFontSize{\small}
```

The default is `\smaller`, which means “slightly smaller than current font size”.

## 2.2 Rendering the Declaration

To print the final declaration, use the `\GAIrenderDeclaration` command at the desired location in your document. For papers/articles, you may place it before or after the references. For theses/dissertations, please follow your institution’s guidelines.

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

- **Star variant** (`\GAIrenderDeclaration*`): Renders the disclosure **without** the automatic section title. Use this when you want to manage the heading yourself.
- **Optional Argument** ([`<columns>`]): The number of columns used for the checklist. The default is 3.
- **Mandatory Argument** ({`<authors>`}): A comma-separated list of author names submitting the declaration.

#### Examples:

```
% Standard form with automatic title  
\GAIrenderDeclaration[3]{Jane Doe, John Smith}  
  
% Starred form without title (custom section)  
\section*{AI Disclosure Statement}  
\label{sec:ai-disclosure}  
\GAIrenderDeclaration*[2]{Jane Doe, John Smith}  
  
% Single column layout  
\GAIrenderDeclaration[1]{Mary Johnson}
```

### 3 Taxonomy Keys

The following keys correspond to the specific tasks defined in the GAIDeT taxonomy [2]. Use these keys with the `\GAIactivate{}` command.

Key	Description
<b>Conceptualization</b>	
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

<b>Literature Review</b>	
<b>l:search</b>	Literature search and systematization
<b>l:write</b>	Writing the literature review
<b>l:patents</b>	Analysis of market trends/patent environment
<b>l:gaps</b>	Novelty evaluation and gap identification
<b>Methodology</b>	
<b>m:design</b>	Research design
<b>m:protocols</b>	Experimental or research protocols
<b>m:methods</b>	Selection of research methods
<b>Software Development</b>	
<b>s:codegen</b>	Code generation
<b>s:opt</b>	Code optimization
<b>s:auto</b>	Process automation
<b>s:algs</b>	Algorithms for data analysis
<b>Data Management</b>	
<b>d:collect</b>	Data collection
<b>d:validate</b>	Validation
<b>d:clean</b>	Data cleaning
<b>d:curate</b>	Data curation and organization
<b>d:analyze</b>	Data analysis
<b>d:viz</b>	Visualization
<b>d:repro</b>	Reproducibility testing
<b>Writing and Editing</b>	
<b>w:textgen</b>	Text generation
<b>w:proof</b>	Proofreading and editing
<b>w:summarize</b>	Summarizing text
<b>w:concl</b>	Formulation of conclusions
<b>w:tone</b>	Adapting and adjusting emotional tone
<b>w:translate</b>	Translation
<b>w:reformat</b>	Reformatting
<b>w:press</b>	Press releases and outreach materials
<b>Ethics &amp; Supervision</b>	
<b>e:bias</b>	Bias analysis and discrimination assessment
<b>e:risk</b>	Ethical risk analysis
<b>e:compliance</b>	Compliance monitoring
<b>e:conf</b>	Data confidentiality monitoring
<b>sup:qa</b>	Quality assessment
<b>sup:trends</b>	Trend identification
<b>sup:limits</b>	Identification of limitations
<b>sup:recs</b>	Recommendations
<b>sup:pub</b>	Publication support

## 4 Disclosure of Delegation to Generative Artificial Intelligence

Jane Doe, John Doe, and Mary Doe declare<sup>1</sup> 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 checked="" type="checkbox"/> Feasibility assessment and risk evaluation |
| <input checked="" 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 checked="" 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 checked="" type="checkbox"/> Creation of algorithms for data analysis |
| <input type="checkbox"/> Code optimization |  |  |

### Data Management

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

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<sup>1</sup>This declaration was generated using XeL<sup>A</sup>T<sub>E</sub>X and the L<sup>A</sup>T<sub>E</sub>X package `aidisclose` [1].

## Writing and Editing

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

## Ethics Review

- |   |  |  |
|---|--|--|
| <input checked="" type="checkbox"/> Bias analysis and discrimination assessment | <input checked="" type="checkbox"/> Ethical risk analysis                        | <input type="checkbox"/> Data confidentiality monitoring |
|   | <input checked="" type="checkbox"/> Monitoring compliance with ethical standards |  |

## Supervision

- |   |   |  |
|---|---|--|
| <input type="checkbox"/> Quality assessment   | <input checked="" type="checkbox"/> Identification of limitations | <input type="checkbox"/> Recommendations     |
| <input type="checkbox"/> Trend identification |   | <input type="checkbox"/> Publication support |

**Generative AI tools used:** ChatGPT-5.2, Gemini 3 Pro, Claude 4.5 Opus, and Perplexity 12.12.25.

**Additional comment #1** The AI was used primarily for refining the code in Section 3, but the algorithm logic was derived manually.

**Additional comment #2** This is a second additional comment!

**Additional comment** This is a third additional comment! It is starred and, thus, does not get a number. Also, this comment is longer and, hopefully, will span to the next line!

**Additional comment #3** This is the third non-starred additional comment!

## 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).