

# Originality Checking & AI Detection Group Update

PFW Senate Presentation

Spring 2025

**PURDUE**  
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# *Group Project Description*

*“Identify the current needs of Purdue regarding originality and AI detection as part of the academic integrity process. This initiative will determine what specific technical resources are needed and if they are even possible to implement. It will also review potential impact of change to current academic integrity processes, resources, and policies”*

Turnitin produces 2 reports:

- “Originality Check”
- “AI Writing Detection”

# *Group Members*

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# *Current Progress and Future Considerations*

1. We need to keep originality checking for academic integrity consideration.
2. Currently, market research shows Turnitin is likely the best option for the Purdue system, and so Turnitin is renewed for this academic year.
3. All GenAI “detection” software is unreliable and will likely remain that way for the foreseeable future.
4. Another market research might be conducted in a year or two to investigate technology development.

# Instructors' View of Turnitin Results in Brightspace


  [AI and the Future of Workforce Panel Discussion...](#) (3.53 MB) 1 % 

  [Diffusion of Innovation Introduction.docx](#) (18.74 KB) 23 % 

  [Version 6.docx](#) (13.63 KB) 0 % 

## Submission 3

Unevaluated Tuesday, July 16, 2024 12:37 PM



 AI and the Future of Workforce Panel D  
DOCX • 3.5 MB

Turnitin Similarity Report


1 % 

## Submission 2

Unevaluated Tuesday, July 16, 2024 12:10 PM

  Diffusion of Innovation Introduction  
DOCX • 18.7 KB

Turnitin Similarity Report

23 % 

- When Turnitin is enabled for assignments, instructors can see the similarity score.
- Instructors click on the Turnitin Similarity Report score to open it.

# The First Page of the Turnitin Report



## 31% Overall Similarity

Filters

1 Exclusion →

Match Groups

Sources

19 matches found with Turnitin's database

Show Help

	11 Not Cited or Quoted	9%
	0 Missing Quotations	0%
	3 Missing Citation	10%
	5 Cited and Quoted	12%

- The default is the Similarity Report.
- Detailed report is on the right side.

The "AI Writing" Report for less than 20% of the Paper Content "Detected" as AI-Generated

AI Writing \*18%

**\*18% detected as AI** ⓘ

Percentage indicates the amount of qualifying text within the submission that was likely generated using AI.

*\*AI detection scores below the 20% threshold, which we do not surface in new reports, have a higher likelihood of false positives.*

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**Submission Breakdown**

1 AI-generated only 18%

Likely AI-generated text from a large-language model.

# Example AI Detection Report



Similarity 23%    Flags    **AI Writing 56%**



2.5% of the population.

- **Early Adopters:** The early adopters are the next to try new ideas. They are influential and often lead others by example with their enthusiasm and positive attitude. They are well-connected, respected, and educated, making up about 13.5% of the population.
- **Early Majority:** These people are more cautious and need more evidence before adopting new ideas. They follow the early adopters but take a little longer to decide. The early majority make up about 34% of the population.
- **Late Majority:** This group is skeptical and resistant to change. They only adopt new ideas after the majority of their peers have done so. They also make up about 34% of the population.
- **Laggards:** The laggards are the last to adopt new ideas. They are traditional, isolated, and very reluctant to change. They only adopt new ideas when they have no other choice or when the new idea is already outdated. This group make up about 16% of the population.

However, it is worth mentioning, the speed at which new ideas are adopted depends on several factors, such as the characteristics of the innovation, communication channels, the social system, and timing. Rogers pointed out that innovations perceived as having relative advantage, compatibility, simplicity, observability, and trialability are more likely to be adopted quickly and widely.

## How does diffusion of innovation work?

According to Rogers, diffusion of innovation follows a process that consists of five phases: information. These phases describe the adopting or rejecting an innovation.



## 56% detected as AI ⓘ

The percentage indicates the combined amount of likely AI-generated text as well as likely AI-generated text that was also likely AI-paraphrased.

### Submission Breakdown



**13 AI-generated only** 56%  
Likely AI-generated text from a large-language model.

**0 AI-generated text that was AI-paraphrased** 0%  
Likely AI-generated text that was likely revised using an AI-paraphrase tool or word spinner.







# The "AI Writing" Report for 100% of the Paper Content "Detected" as AI-Generated

## 100% detected as AI ⓘ

The percentage indicates the combined amount of likely AI-generated text as well as likely AI-generated text that was also likely AI-paraphrased.

### ☰ Submission Breakdown



-  **1 AI-generated only** 74%  
Likely AI-generated text from a large-language model.
-  **2 AI-generated text that was AI-paraphrased** 26%  
Likely AI-generated text that was likely revised using an AI-paraphrase tool or word spinner.



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Our AI writing assessment is designed to help educators identify text that might be prepared by a generative AI tool. Our AI writing assessment may not always be accurate (it may misidentify writing that is likely AI generated as AI generated and AI paraphrased or likely AI generated and AI paraphrased writing as only AI generated) so it should not be used as the sole basis for adverse actions against a student. It takes further scrutiny and human judgment in conjunction with an organization's application of its specific academic policies to determine whether any academic misconduct has occurred.

# *Turnitin Disclaimer*

Our AI writing assessment is designed to help educators identify text that **might be** prepared by a generative AI tool. Our AI writing assessment **may not always be accurate** (it may misidentify writing that is likely human generated as AI generated and likely AI generated as human generated) so it **should not be used as the sole basis for adverse actions** against a student. It takes **further scrutiny and human judgment in conjunction with an organization's application of its specific academic policies** to determine whether any academic misconduct has occurred.

# Add a slide for student view

Instructors can choose to allow students to see the similarity report or not.

## Turnitin™ Integration

### Similarity Report

Enable similarity checking to identify matching or similar text to sources in Turnitin's databases.

Enable Similarity Report for this folder




#### Display

Allow learners to see similarity scores in their submission folder

#### Submissions Checked

Automatic similarity checking on all submissions

Identify individual submissions for similarity checking

Submission ID	Submission(s)	Turnitin Similarity Report	Date Submitted
10448382	 <a href="#">Version 6.docx</a> (13.63 KB) Version 6 Turnitin™	0 %	Apr 4, 2023 1:08 PM
14674549	 <a href="#">Diff</a> Turnitin™	23 %	Jul 16, 2024 12:10 PM
14674596	 <a href="#">Ala</a> (MB) Turnitin™	1 %	Jul 16, 2024 12:37 PM

# *Consequences of AI Detection Models like Turnitin*

1. They have regular and frequent false positives, and can easily be manipulated (Weber-Wulff et al., Cassal & Kessler, Perkins et al., Lu et al., Creo & Pudasaini)
2. Even a very generous assumption of 90% accuracy would have falsely flagged 17,500 student assignments last year.
3. Early research suggests non-native English speakers are many more times likely to be falsely flagged (Liang et al.).
4. A student is suing a high school in Massachusetts for using AI detection software.

# *PFW Plan*

- We have major concerns with the AI detection feature component.
- Turnitin AI Detection is a campus-level configuration.
  - PWL and PFW currently have the feature turned on in Brightspace.
  - If it is turned off, nobody can use the AI detection feature.
  - If remained on, instructors can choose to use it or not.
- The Ed Tech team plans to send out a survey to all PFW instructor to collect feedback.

*Thank You*

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