Originality Checking & Al Detection Group Update

PFW Senate Presentation

Spring 2025



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"
- "Al Writing Detection"

Group Members

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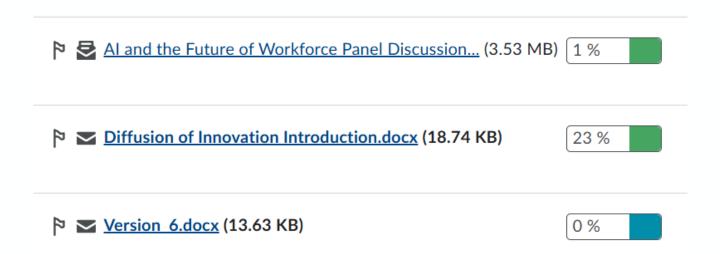
Jessica Ivy (Purdue Northwest)

Emily Hixon (Purdue Northwest)

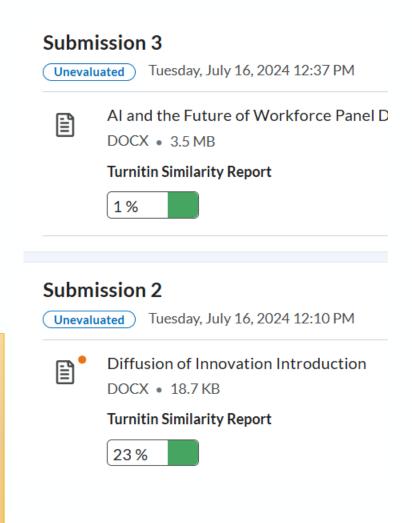
Current Progress and Future Considerations

- 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.
- All GenAI "detection" software is unreliable and will likely remain that way for the foreseeable future.
- Another market research might be conducted in a year or two to investigate technology development.

Instructors' View of Turnitin Results in Brightspace



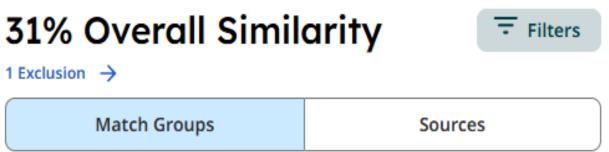
- When Turnitin is enabled for assignments, instructors can see the similarity score.
- Instructors click on the Turnitin Similarity Report score to open it.

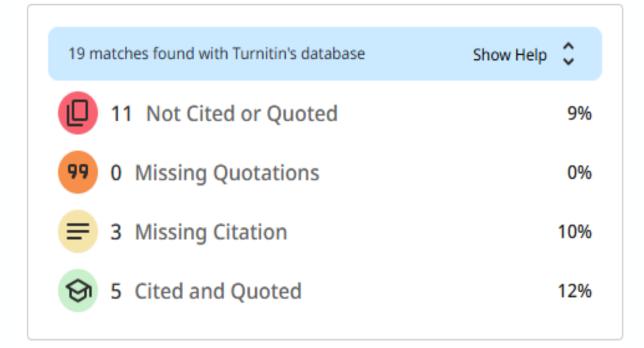


The First Page of the Turnitin Report



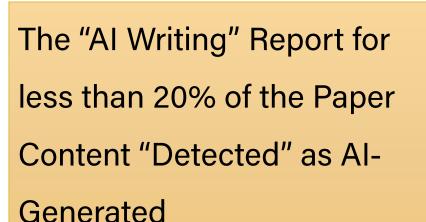
- The default is the Similarity Report.
- Detailed report is on the right side.

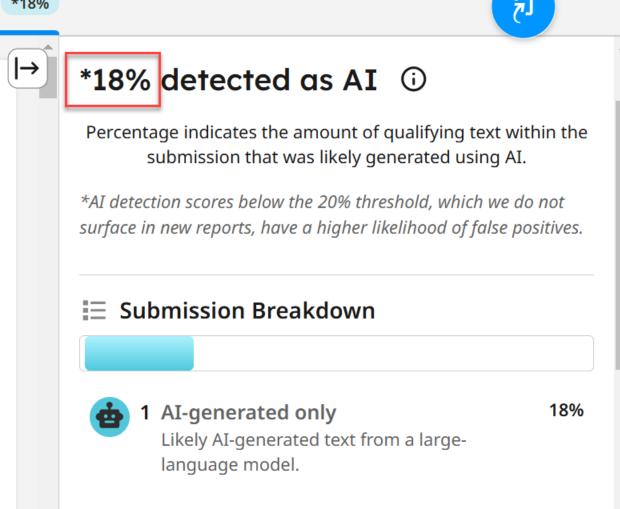




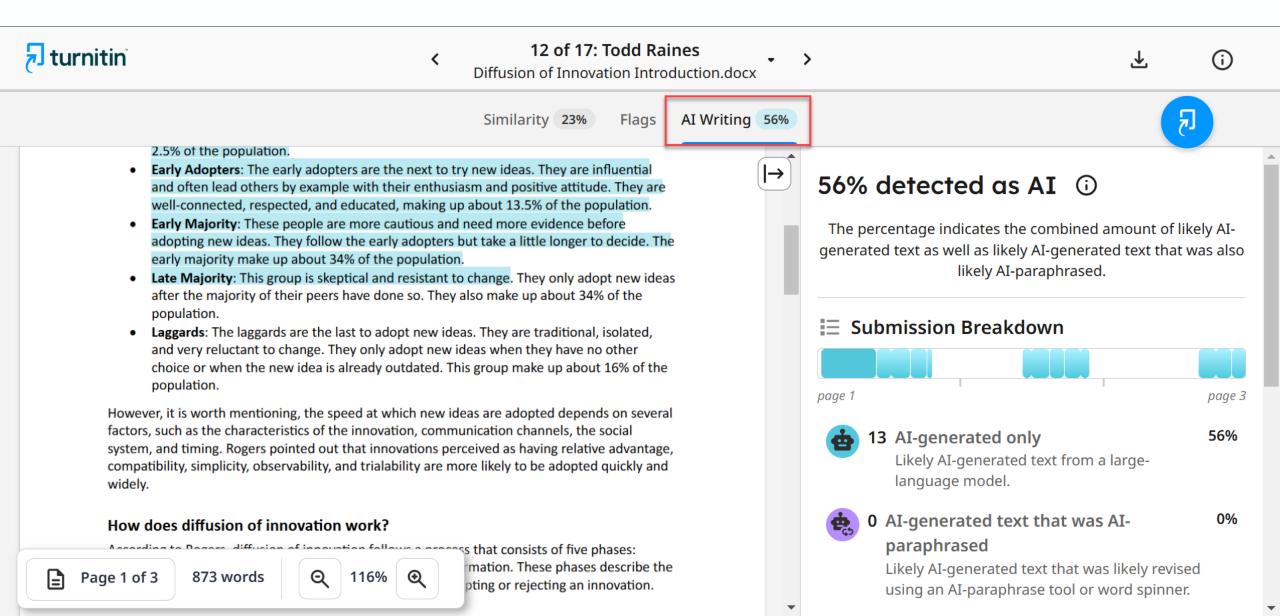
AI Writing *18%







Example AI Detection Report

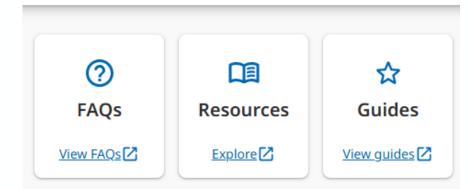


The "AI Writing"
Report for 100% of
the Paper Content
"Detected" as AIGenerated

100% detected as AI ①

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 **page 1 page 4* **AI-generated only Likely AI-generated text from a large-language model. **2 AI-generated text that was AI-paraphrased Likely AI-generated text that was likely revised using an AI-paraphrase tool or word spinner. **26%**



Hide 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 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

DisplayAllow learners to see similarity scores in their submission folder

Submissi s Checked

Autom ic similarity checking on all submissions

Identify in ividual submissions for similarity checking

Submission ID	Submission(s)	Turnitin Similarity Report	Date Submitted • >
10448382	▼ Version 6.docx (13.63 KB) Version ← Turnitin [™]	0 %	Apr 4, 2023 1:08 PM
14674549	≥ B <u>Diff</u> Turnitin [™]	23 %	Jul 16, 2024 12:10 Pf
14674596	ᢒ B <u>Al a</u> MB) Turnitin [™]	1 %	Jul 16, 2024 12:37 Pi

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.).
- A student is suing a high school in Massachusetts for using Al 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

