

PIDs in the era of AI: service provider perspective



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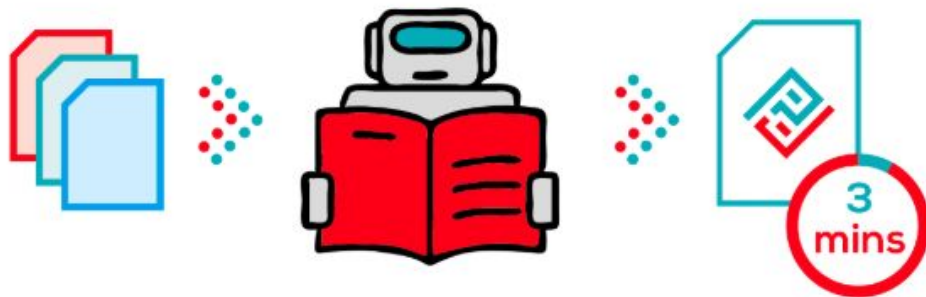
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PD generates “**digest**” (extractive summary) contains essence

Artificial Intelligence summarizes
academic articles for you

Reducing reading time to **3 minutes!**





paper-digest.com

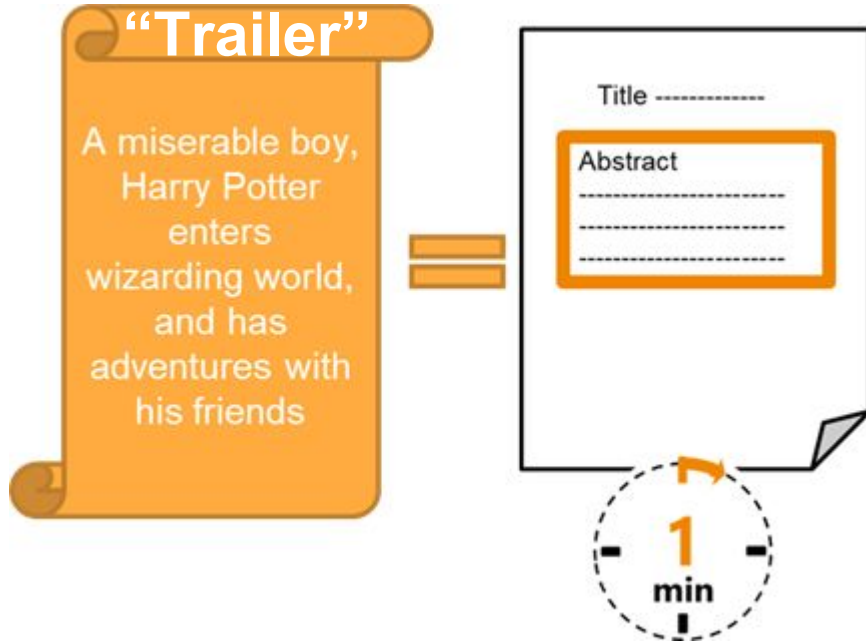
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@paper_digest

What is Paper Digest?

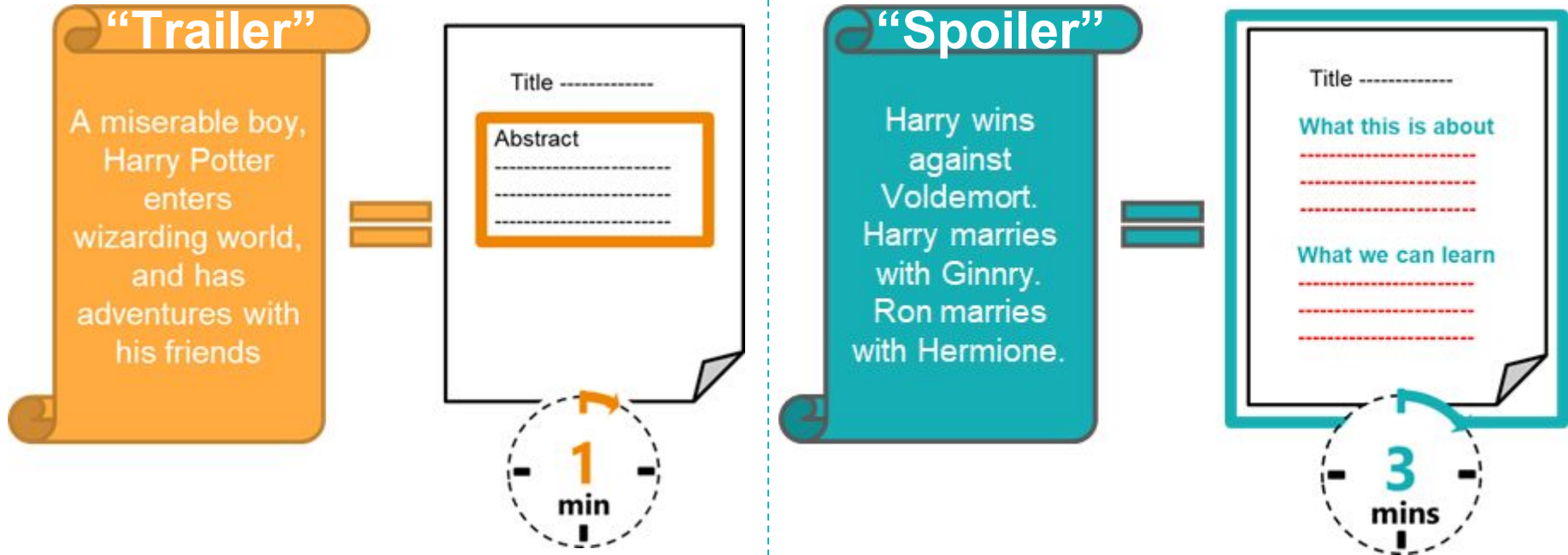
You might say “I have abstract”



What is Paper Digest?

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PD generates “digest” (extractive summary) contains essence



Who are using Paper Digest?

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Students & early-career researchers with so called **3N challenges**:

**Non-native
English
speaker**

ex. Chinese, Indonesia,
Brazilian, Russian,
Japanese, etc.

Non-expert

ex. emerging tech,
Just start studying
new field, etc.

Non-tenured

ex. PhD student,
PostDoc,
Assistant prof, etc.

Across **90 countries**. We ourselves are the users!

How Paper Digest works?

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Digest

[How to use?](#)

How Paper Digest works?

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Receive DOI/URL... **Summarizing...**

An **AI** is summarizing the paper for you!



SUMMARIZING...

How Paper Digest works?

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Are university rankings useful to improve research? A systematic review

Vernon, Balas, Momani *PLOS ONE* 2018
<https://doi.org/10.1371/journal.pone.0193762>

What this paper is about

Introduction and Objective

- Considering the significance of university innovation, there is a pressing need for outcome studies and quality improvement initiatives in the research enterprise.
- Research quality issues exist within university research; in the last 10 years, several studies and commentaries have highlighted the need for improvement in transparency, replicability, and meaningful research outcome reporting.
- Assessment of the validity of research and academic quality indicators in university rankings is often unexplored; only once in the literature were two ranking systems so evaluated.

What you can learn

Results

- Excluded ranking systems were either no longer being published, did not include research performance indicators, or did not publish ranking methodologies.
- While the US News and World Report ranking of American universities was not eligible due to a lack of research performance indicators, the US News and World Report Global Ranking is included.
- Tables and list the indicators utilized by the ranking systems to evaluate research performance or quality.

Discussion and Conclusions

- In our sample, eight of the thirteen systems include indicators to measure academic quality.
- Many ranking systems are marketed either for academic choice/comparison, yet, these indicators do not sufficiently reflect the teaching and learning environments of students.
- Consultation with ranking system developers and research administrators has provided support for the included list.
- There is a need for a credible quality improvement movement in research that develops new measures, and is useful for institutions to evaluate and improve performance and societal value.
- Quality over quantity should be emphasized to affirm research performance improvement initiatives and outcomes, which benefit society through scientific discovery, economic outcomes, and public health impact.
- We suggest that future research evaluate three dimensions of research outcomes: scientific impact, economic outcomes, and public health impact for evaluating research performance within an academic institutional environment.

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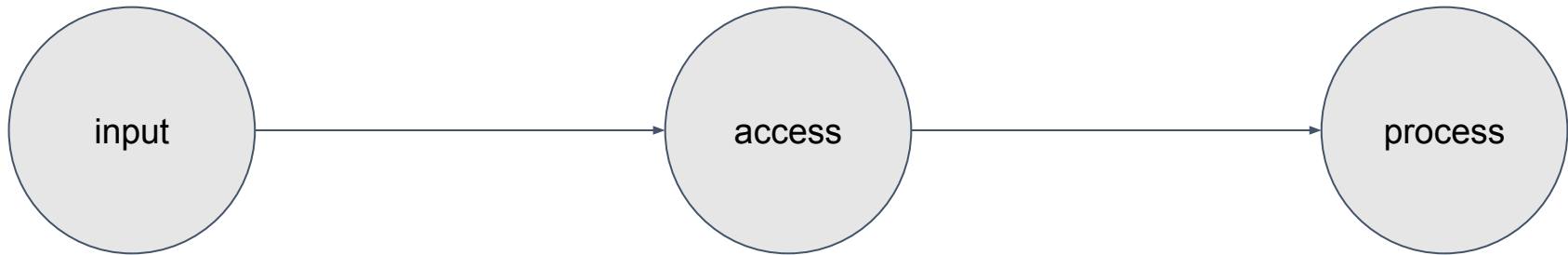
But sometimes PD does not work for some reasons

We suggest that future research evaluate three dimensions of research outcomes: economic impact, economic outcomes, and public health impact for evaluating research performance within an academic institutional environment.

The reasons PD does not work

11

1. User provided **non-DOI, non-URL**
2. Valid DOI/URL **but the file is unreachable**
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The reason PD does not work -1

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User provided **non-DOI, non-URL**

- Ex. Title of the paper

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The reason PD does not work -2

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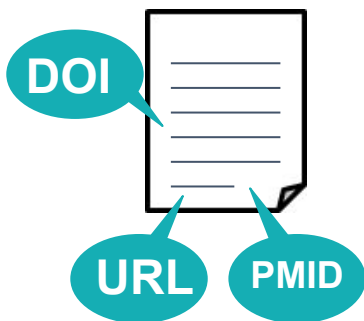
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**What are the challenges
of PIDs in the era of AI?**

Challenge 1

16

Users do not necessarily input DOI



Cobaltmetrics
cobaltmetrics.com #altmetricsforall



Challenge 1

17

Users do not necessarily input DOI



Please visit our collaboration poster

“TRANSMUTED PIDS, EXPANDED COVERAGE!”

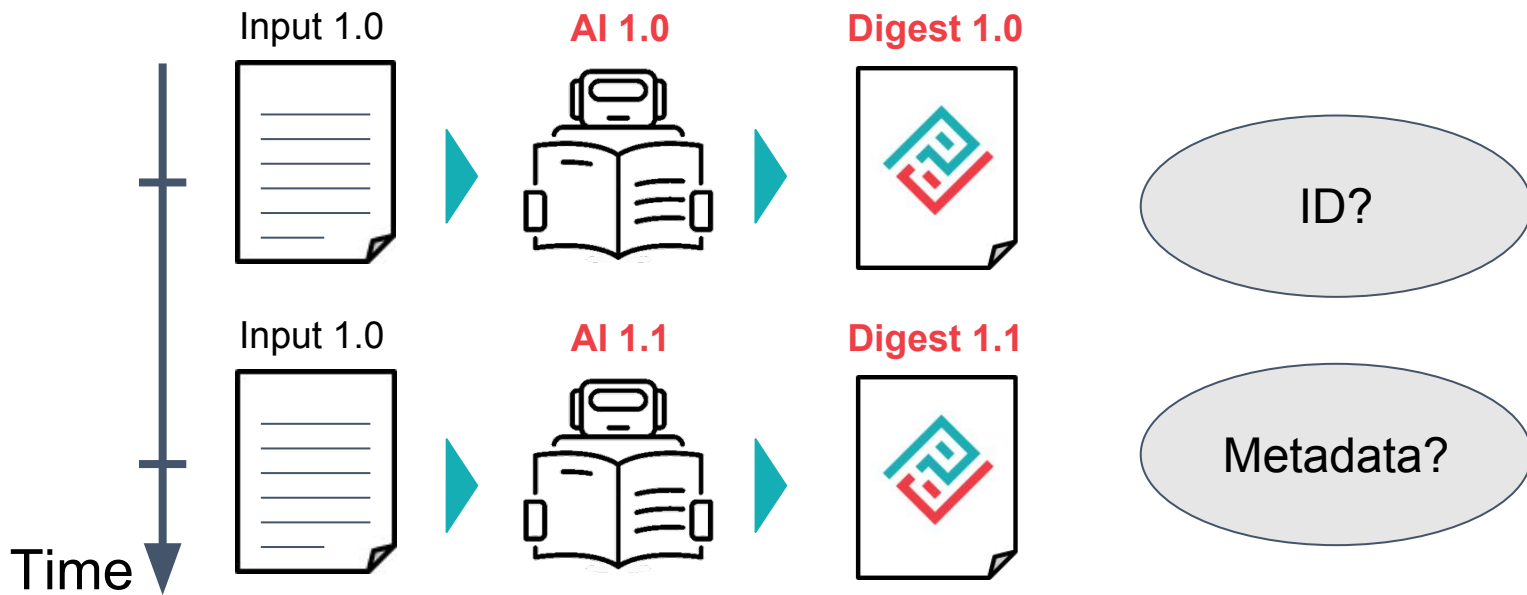
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Challenge 2

18

AI become smarter, **the way we put PIDs should be smarter**

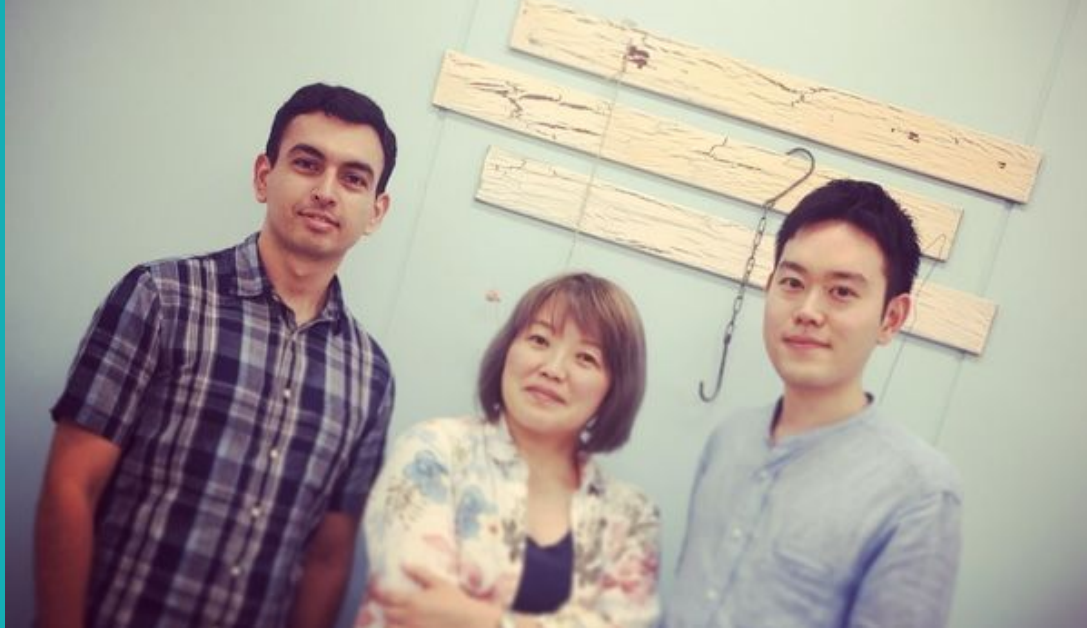
Even for the same input, different version of the algorithm will bring different outputs



Summary

- Paper Digest demonstrates the use of machine readable PID
- From “human-to-machine” to “machine-to-machine”

Please find our faces, and let's talk :)



Cristian Nobuko Yasu