



Künstliche Intelligenz im Publishing

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UB Graz | Publikationsservices
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Hinweis



- Diese Lehrveranstaltung wird aufgezeichnet und im Anschluss den angemeldeten Teilnehmer:innen zur Verfügung gestellt. Die Aufzeichnung wird auf der UB-Webseite veröffentlicht.

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Inhalt



- Veränderungen durch KI im Publikationswesen
- Verlagsrichtlinien
- Rechtliche und ethische Aspekte beim Einsatz von KI
- KI-Tools für Autor:innen
- KI im Peer-Review-Prozess
- Praktische Umsetzung

Was ist KI?



<https://deepai.org/machine-learning-model/abstract-painting-generator>

- In dem Zusammenhang der heutigen Veranstaltung:
 - Hauptsächlich generative Künstliche Intelligenz (gen KI) in Form von LLM
 - Anwendungen, die darauf aufbauen
- Keine code- und bildgenerierenden Tools
- Für die Literaturrecherche mit Hilfe von KI gibt es eine eigene Fortbildung an der UB

Veränderungen für Autor:innen



<https://deepai.org/machine-learning-model/abstract-painting-generator>

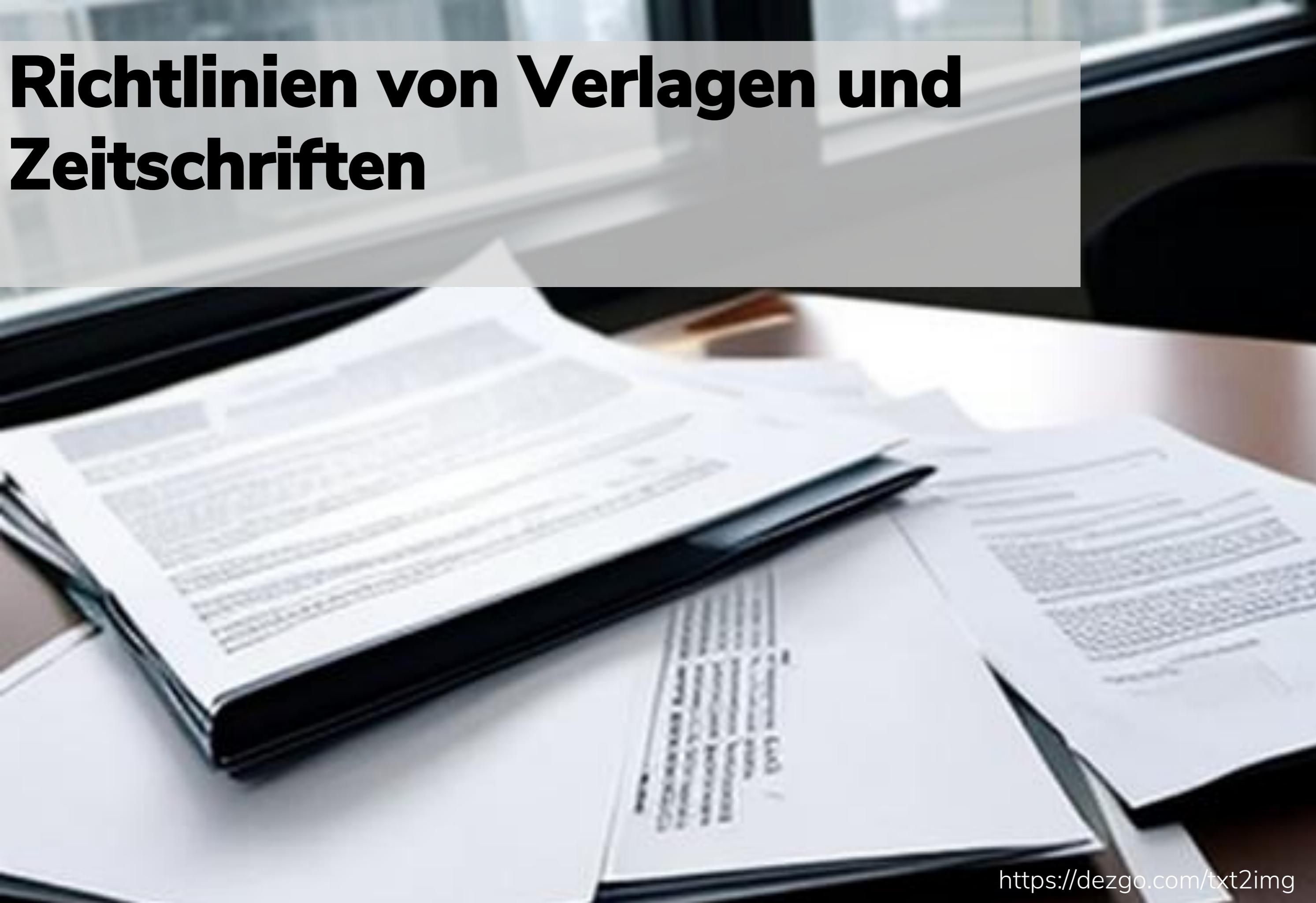
- Richtlinien von Journals und Verlagen müssen beachtet werden
- Verlagsvertrag nach Klauseln zu KI lesen
- Chancenausgleich Non-Native-English Speaker
- KI Tools für die Generierung von Keywords, Abstracts, Bias-Überprüfung, Zusammenfassungen in einfacher Sprache
- Zukünftig: wird der wiss. Artikel weniger „wert“ weil es viel leichter ist einen zu erstellen?
- Verschärfung der Replication Crisis: massenhaft generierte Studien ohne replizierbare Methodik gefährden wiss. Glaubwürdigkeit

Veränderungen für Herausgeber:innen



- Die Verwendung von generativer KI wird von **Autor:innen** zunehmend eingesetzt
- Massive Schwemme an submissions, die ein peer review benötigen (oder reviewed die AI?)
- Richtlinien für die Verwendung von KI muss in den Redaktionen erarbeitet werden
 - Für Autor:innen
 - Für Gutachter:innen
 - Für die redaktionelle Arbeit
- Einsatz von Tools die die Arbeit erleichtern (z.B.: Reviewer finden, Manuscript checking – Penelope AI)

Richtlinien von Verlagen und Zeitschriften



KI Regelungen in Verlagsverträgen



- Zukünftig auf derartige Regelungen achten!
- Sogar Übersetzungen sind davon betroffen

(5) Die Autorin versichert, dass es sich bei dem Werk um ihre persönliche geistige Schöpfung handelt. Die Autorin versichert, dass sie über alle im Verlagsvertrag genannten Rechte an diesem Werk allein und uneingeschränkt verfügberechtigt ist und dass sie keine diesem Vertrag entgegenstehende Verfügung getroffen hat. Die Autorin verpflichtet sich insbesondere, das Werk selbst nicht ganz oder teilweise durch eine auf Künstlicher Intelligenz basierenden Anwendung zu erstellen oder verarbeiten zu lassen (z. B. durch Bearbeitungen, Übersetzungen und Zusammenfassungen).

Kernelemente von KI-Richtlinien



○ Transparenz & Verantwortung

- Offensichtliche Kennzeichnung von KI-generiertem Text, z.B. durch Fußnoten oder Metadaten.
- Angabe des verwendeten KI-Tools und seiner spezifischen Konfiguration.
- Beschreibung der Rolle von KI im Entstehungsprozess des Textes (z.B. Ideengenerierung, Textformulierung, Übersetzung)
- Autor:innen und Forschende tragen die Verantwortung für den gesamten Inhalt

○ Qualitätssicherung

- Einhaltung der wissenschaftlichen Standards und Best Practices.
- Sorgfältige Prüfung des KI-generierten Textes auf Plagiate, Falschinformationen und sachliche Fehler.
- Sicherstellen der Kohärenz und Verständlichkeit des Textes.

Wie setzen Verlage KI bereits ein?



- Springer: Gepetto und SnappShot (AI text and AI images detection tools)
- Taylor and Francis
 - Cactus PaperPal to support language editing
 - Journal Suggester to match authors and manuscripts to the most appropriate journals
 - CrossRef Similarity Check to check for plagiarism
 - Reviewer Locator to find reviewers
 - Imagetwin to check images for plagiarism, duplication and manipulation

AI-Bildgenerierung in fake science



GENERATING BOGUS SCIENCE

In each case below, the images in the final columns were generated by an artificial-intelligence tool using the real images in the preceding columns. Each set took about 30 seconds to produce.

Western blot

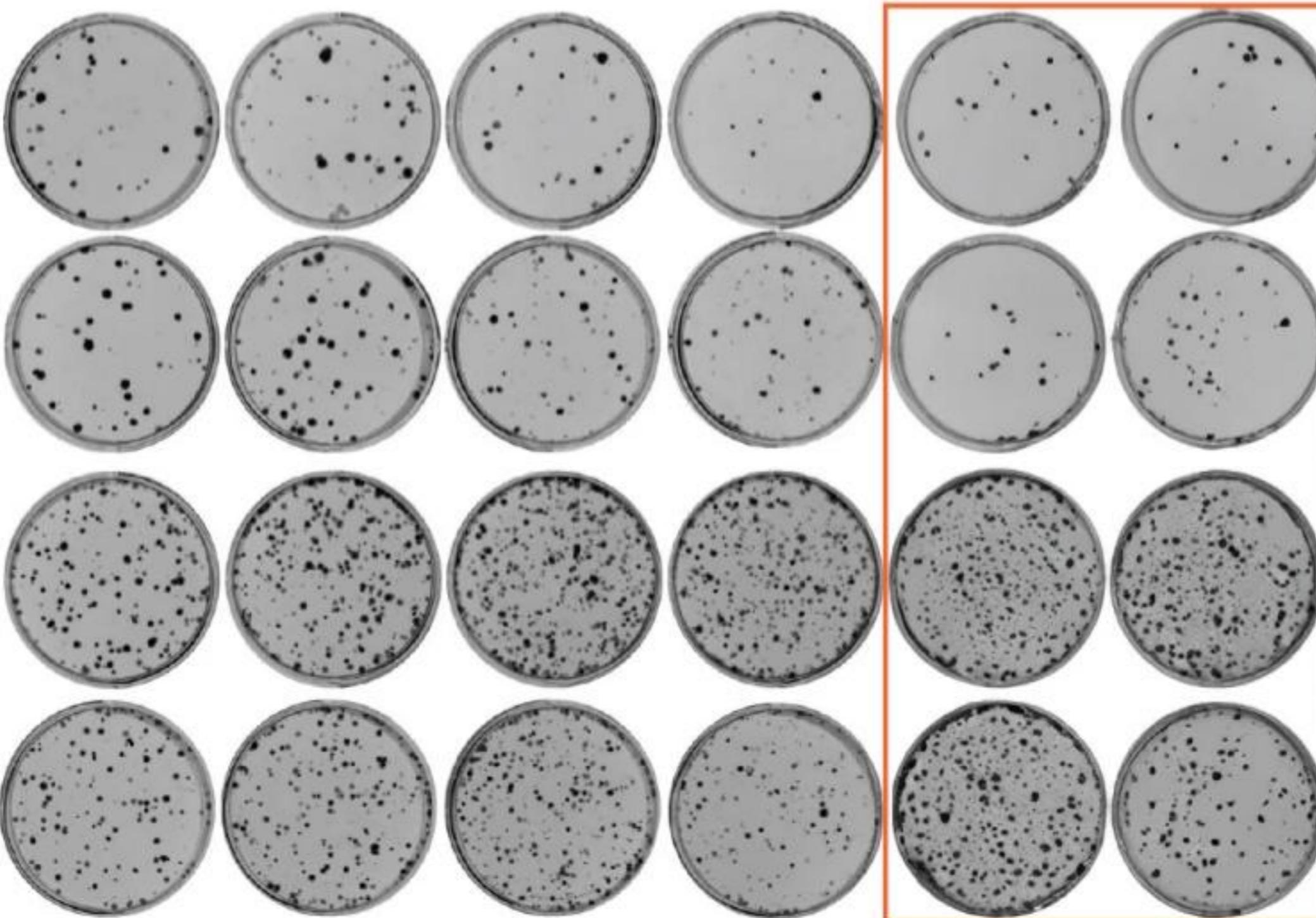


Tumour samples



<https://doi.org/10.1038/d41586-024-03542-8>

Cell culture

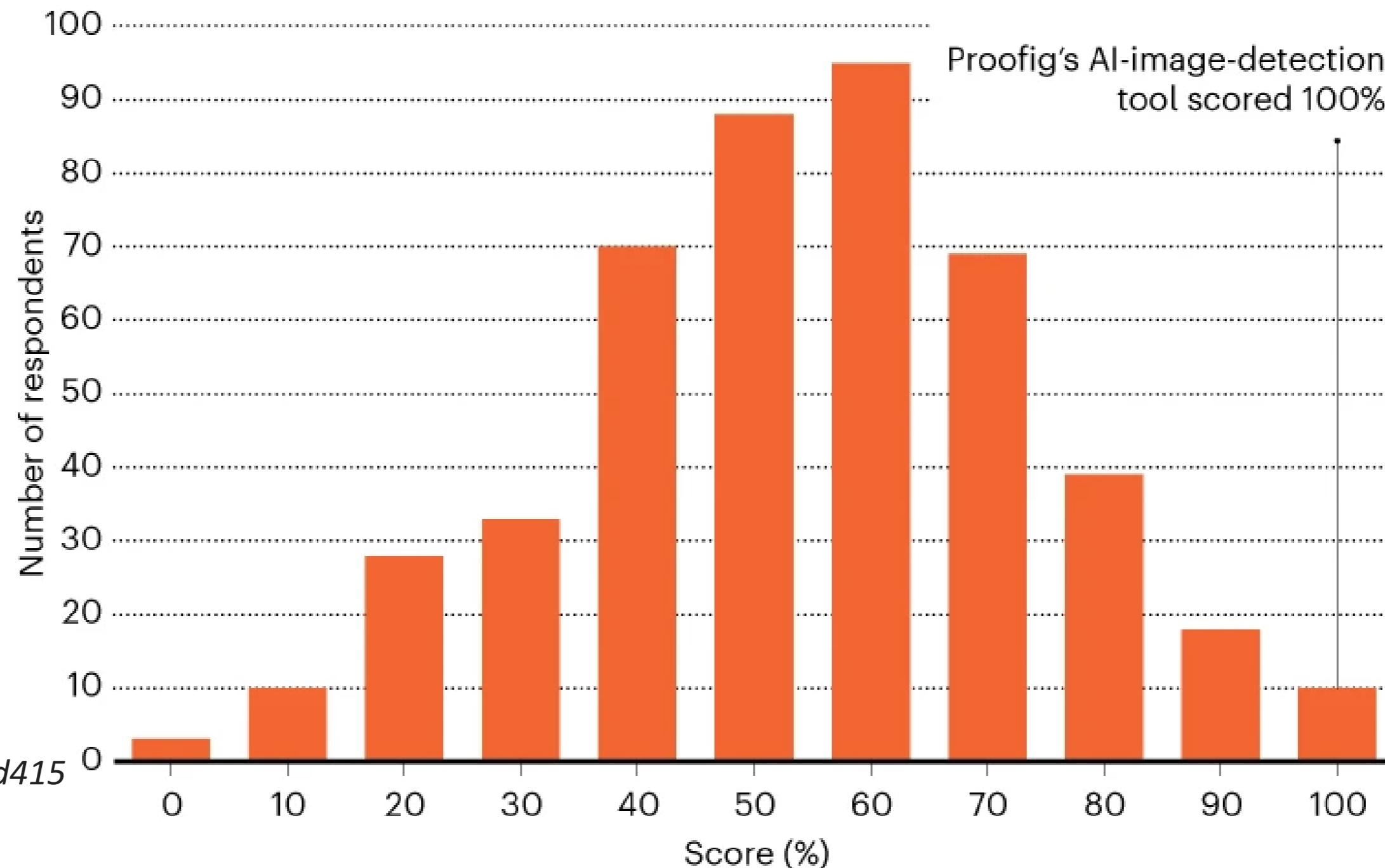


<https://doi.org/10.1038/d41586-024-03542-8>

©nature

AI IMAGES ARE HARD TO SPOT

A quiz run by the firm Proofig tested more than 450 researchers on whether they could differentiate between real microscopy images and those generated by artificial-intelligence tools. The median success rate of 50% shows how difficult it is to detect faked images.



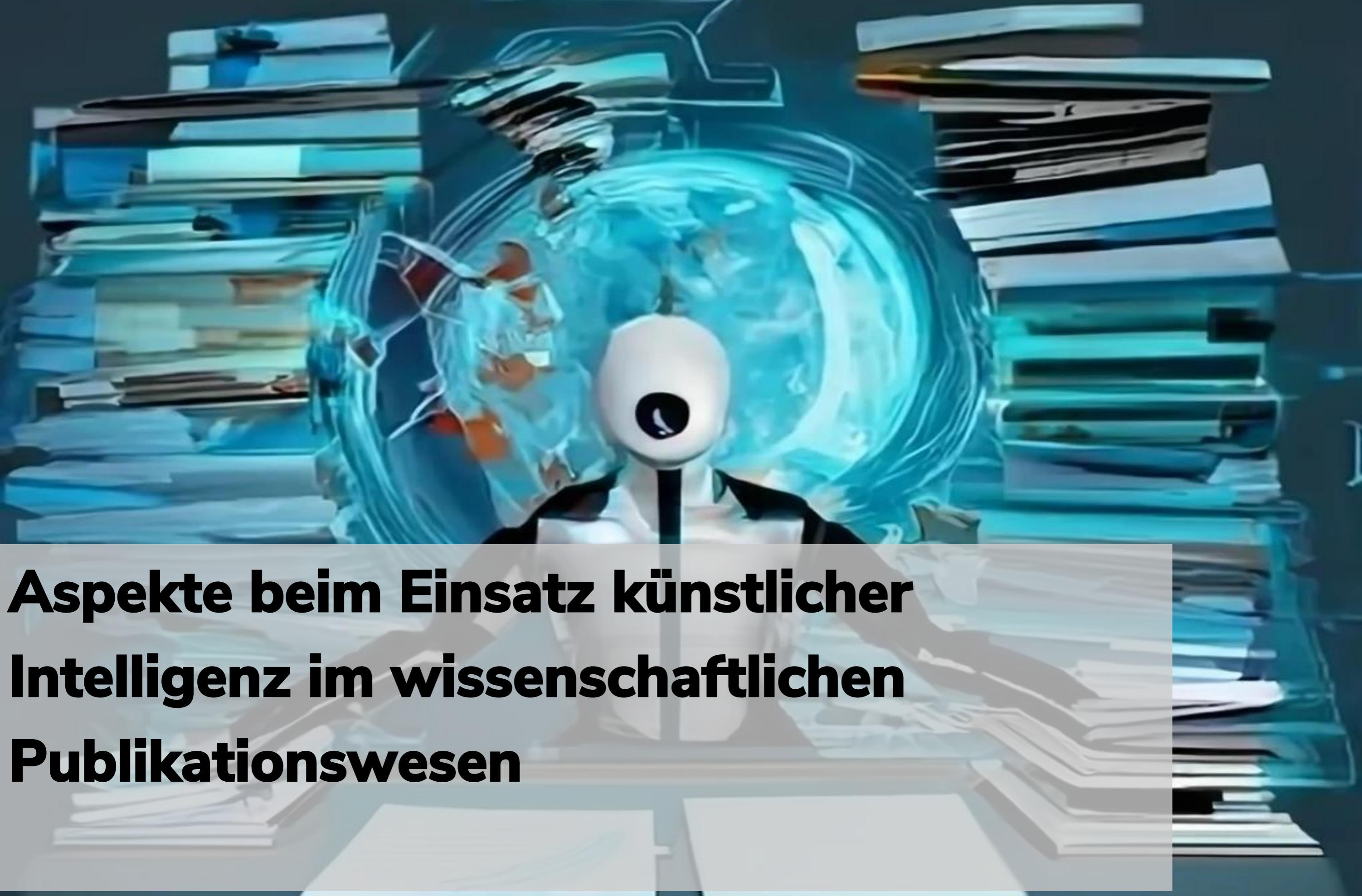
<https://doi.org/10.1038/d41586-024-03542-8>

©nature

Derzeitige und zukünftige Anwendungsmöglichkeiten von KI im publishing



- Predictive analyses:
 - Zitationsimpact: welche Paper werden viele Zitierungen erlangen?
 - Erfolgschancen von Drittmittelanträgen
 - Karriere-Entwicklung anhand von Publikationen, Zitationen, Kollaborationen, Affiliationen.
- Editorial board Tätigkeiten
 - Screening von Submissions nach bias, Plagiate, ähnliche Publikationen in der eigenen Zeitschrift
 - Ranking von Submissions nach: Scope, Zitationswahrscheinlichkeit, mediales Interesse
 - Bias Vermeidung: Reviewers haben auch einen bias der über trainierte Tools erkannt werden kann.



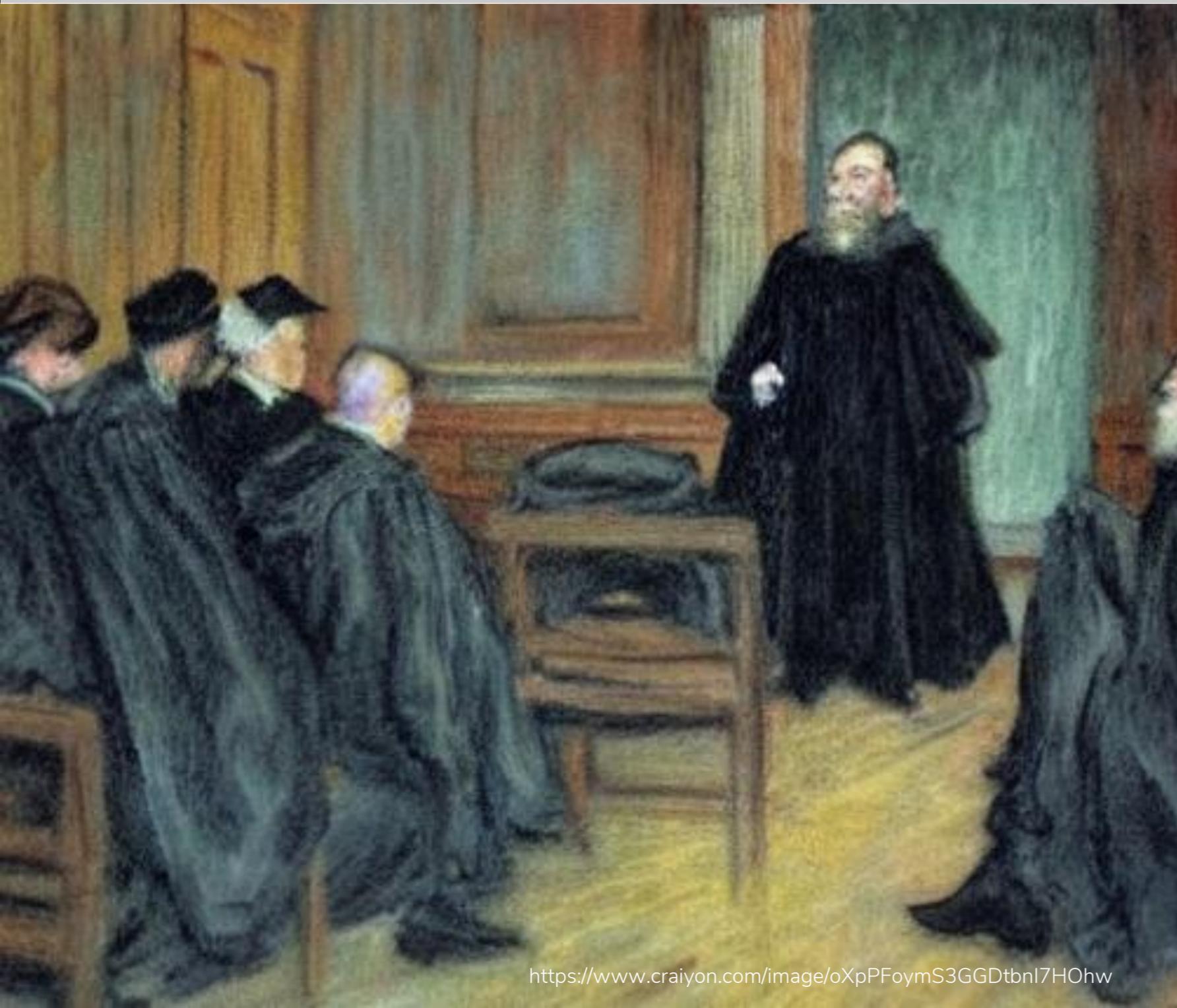
Aspekte beim Einsatz künstlicher Intelligenz im wissenschaftlichen Publikationswesen

Autorschaft und Verantwortlichkeit



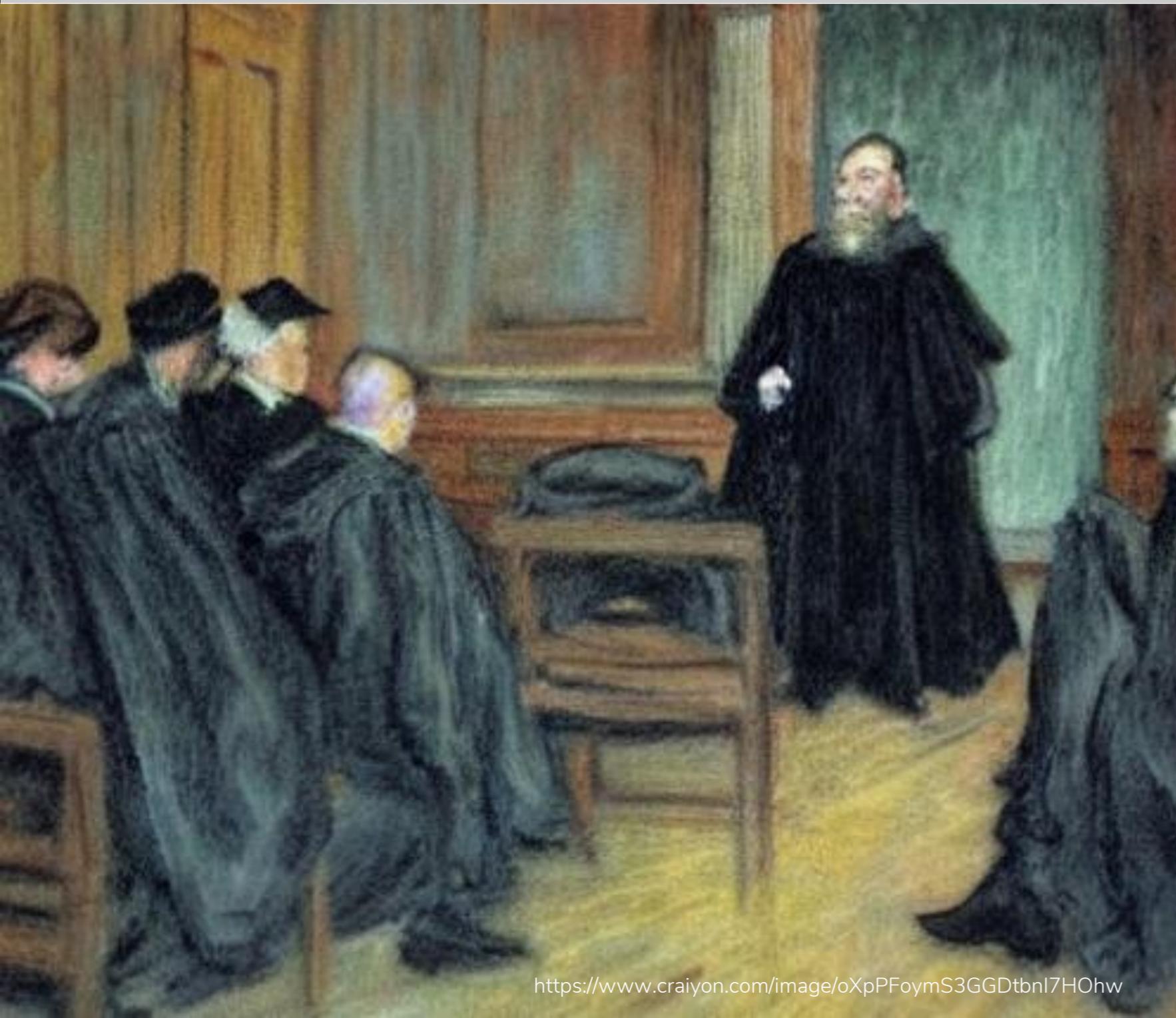
- KI erfüllt nicht die Kriterien für Autorschaft
- Autor:innen müssen die Verantwortung für den gesamten Inhalt, auch den der KI übernehmen
- Quellenprüfung: KI-Tools können Referenzen halluzinieren – eine Überprüfung ist unerlässlich
- Beiträge von KI Tools müssen transparent und nachvollziehbar dokumentiert werden
- Bias-Bewusststein
- Ergebnisse von KI-gestützten Studien sollten ebenso reproduzierbar sein – Problem!
- KI generiert oft generische Sprache – auf Fachterminologie und präzise Formulierungen achten
- Co-Autor:innen müssen der KI Verwendung zustimmen

Rechtliche Aspekte



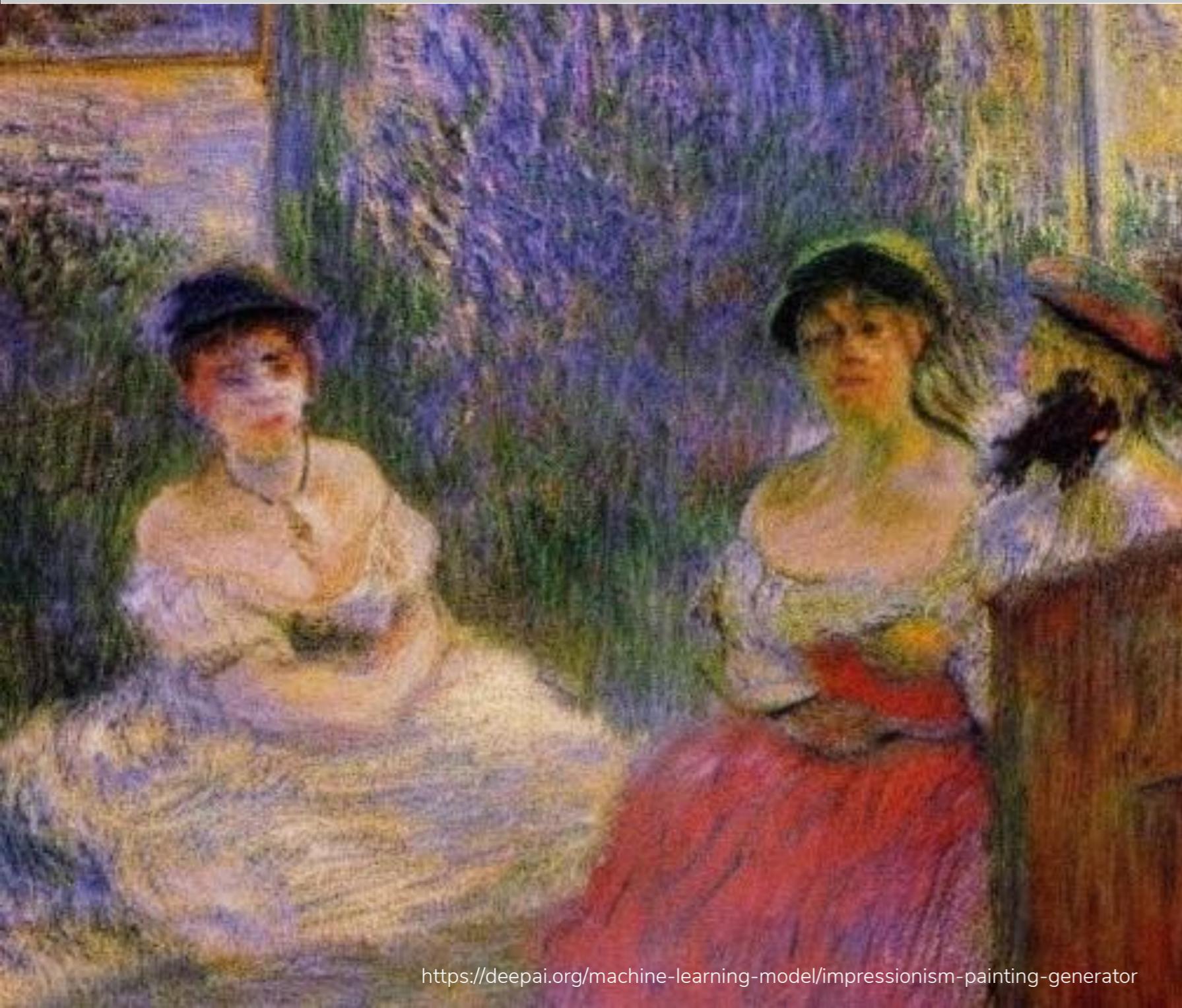
- Abgrenzung zwischen problematischem und wenig problematischem Einsatz von KI
 - In welchem Stadium der wiss. Arbeit setze ich KI ein?
 - Idee / Konzept, Literaturrecherche
 - Datenerhebung und -analyse
 - Interpretation der Ergebnisse und Conclusio
 - Verfassen der Texte / Bias Analyse
 - Review / Plagiatserkennung (Achtung, KI kann unabsichtlich Plagiate einbauen!), vor allem Ideen-Plagiate
 - Übersetzung / Sprachliche Verbesserungen
- Ab wann ist es „eine eigentümliche, geistige Schöpfung“ und ab wann hat die KI mehr Anteil an der Arbeit als der/die Autor:in?

Rechtliche Aspekte



- KI-generierte Inhalte genießen keinen Urheberrechtsschutz
- Datenschutz
 - Persönliche oder vertrauliche Informationen nicht in eine cloudbasierte KI eingeben

Ethische Aspekte



- Gute wissenschaftliche Praxis:
 - Abgrenzung zwischen eigenem und fremdem Inhalt – Wo ist die Grenze?
 - Gen KI kann einen Bias haben
 - Jedoch: sind wir bias-free?
 - Gen KI können wir Text generieren lassen aus der Sicht eines anderen als dem/der Autor:in
- Ausgleich sprachlicher Diskriminierung: KI kann Chancengleichheit fördern
- Bei der Datengenerierung: sollten Daten mit KI analysiert werden, sollte dies in den informed consents enthalten sein
- Digital Divide: Teure Lizenzen werden unfaire Bedingungen schaffen

Ethische Aspekte



- Woher stammen die Daten, die für die KI-Modelle verwendet wurden?
- Wie können wir sicherstellen, dass LLMs nicht auf Predatory Inhalten trainiert wurden?
 - Gar nicht! Vorteil von „kleinen“ LLMs wie Scopus AI
- Bei manchen Recherchertools kann man eine Auswahl an papers zur Verfügung stellen, an Hand derer zB. eine Forschungsfrage beantwortet werden soll

KI-Tools für Autor:innen

<https://deepai.org/machine-learning-model/cyberpunk-generator>



KI im Peer-Review-Prozess

KI-Tools für Autor:innen

Tools für ...

- ... Textüberarbeitung, Grammatik-Check, stilistische Verbesserungen
 - ... Übersetzung
 - ... Vereinfachung von Texten
 - ... Überprüfung auf Inhalt, Aufbau/Struktur etc.
 - ... das Finden passender Journals (Journal Recommender Systems)
-
- ▶ Meist kostenfreie Registrierung erforderlich
 - ▶ Meist Freemium – in der Gratis-Version nur eingeschränkt nutzbar (z.B. Wort- oder Zeichenbegrenzung)
 - ▶ Nicht alle Textänderungen/-übersetzungen sind fehlerfrei/korrekt!



KI-Tools für Textüberarbeitung, Grammatik-Check, stilistische Verbesserungen



Toolbaz

<https://toolbaz.com/>

- Sammlung von zahlreichen AI-Tools zur Erstellung und Bearbeitung von Texten, sortiert nach Einsatzmöglichkeiten
- Kostenlos
- Keine Registrierung erforderlich

The screenshot shows the homepage of ToolBaz.com. At the top, there's a navigation bar with the logo "ToolBaz.com" and links for "Blog", "Report Bug", and "Tools Suggest". Below the header, a large orange banner features the text "Free AI Writer Tools" and "Get your writing done faster and easier with AI tools that help you write better.". A search bar is visible above a section titled "Article & Content Writer Tools" which includes a sub-section for "AI Writer" and "AI Content Generator".

KI-Tools für Textüberarbeitung, Grammatik-Check, stilistische Verbesserungen



- Unter der Überschrift „Rewriting & Editing“ finden sich einige kostenlose AI-Tools zum Verbessern und Zusammenfassen von Texten, z.B.:
 - Paragraph Rewriter
 - AI Summarizer
 - Sentence Rewriter

Mehrere LLMS stehen zur Auswahl
(Gemini, ChatGPT, Claude, DeepSeek,
Grok, Llama, ...)

Rewriting & Editing

- Plagiarism Remover
- Paragraph Rewriter
- AI Summarizer
- Essay Extender
- Sentence Rewriter
- Essay Rewriter
- AI Text Expander

KI-Tools für Textüberarbeitung, Grammatik-Check, stilistische Verbesserungen



 **Paragraph Rewriter**

Paste the paragraph you want to rewrite for better clarity and originality...

 Choose AI Model:

◆ Gemini-2.5-Flash

 Advanced Options

 Generate

Beispiel: Paragraph Rewriter

← Absatz einfügen

← Modell auswählen

← weitere Optionen

KI-Tools für Textüberarbeitung, Grammatik-Check, stilistische Verbesserungen



Paragraph Rewriter

Paste the paragraph you want to rewrite for better clarity and originality...

Choose AI Model:

- Gemini-2.5-Flash

Advanced Options

Generate

Beispiel: Paragraph Rewriter

Rewrite Style (Optional): Academic

Rewrite Depth (Optional): Moderate Rewrite

Tone / Mood (Optional): Friendly

Target Audience (Optional): Students

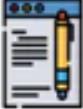
Word Count Preference (Optional): Keep Original Length

Grammar Focus (Optional): Avoid Passive Voice

Additional Instructions (Optional): Fix Grammar Only, Improve Readability, Avoid Passive Voice, Use Advanced Vocabulary

KI-Tools für Textüberarbeitung, Grammatik-Check, stilistische Verbesserungen



 **AI Summarizer**

Paste the text you want summarized into a clear, concise version...

 Text einfügen

 Choose AI Model:

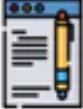
Gemini-2.5-Flash   Modell auswählen

Advanced Options   weitere Optionen

 Generate

KI-Tools für Textüberarbeitung, Grammatik-Check, stilistische Verbesserungen

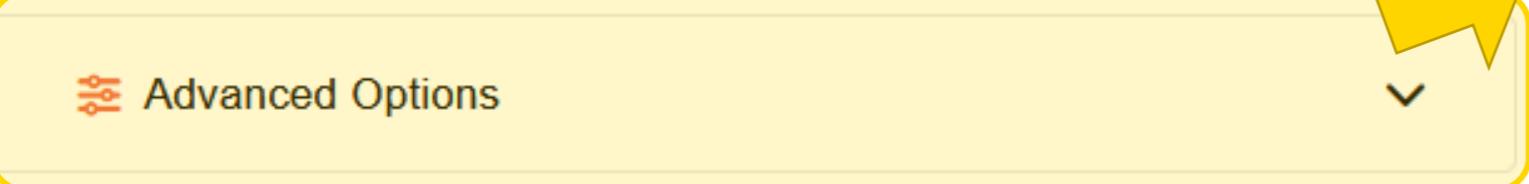


 **AI Summarizer**

Paste the text you want summarized into a clear, concise version...

Choose AI Model:

- Gemini-2.5-Flash

 Advanced Options

 Generate

Beispiel: AI Summarizer

Summary Length (Optional): Short (50–100 words)

Summary Style (Optional): Academic

Tone / Mood (Optional): Serious

Target Audience (Optional): Researchers

Additional Instructions (Optional): Add extra notes (e.g., keep citations, simplify, include quotes, highlight keywords)

KI-Tools für Textüberarbeitung, Grammatik-Check, stilistische Verbesserungen



Wordvice

<https://wordvice.ai/>

- Sammlung von Tools, z.B. Proofreader, Paraphraser, Summarizer, Translator
- Registrierung erforderlich
- Basismodell (kostenlos):
 - 500 Wörter/Anfrage und 5000 Wörter/Monat
 - geringere Auswahl an Modi
 - AI Plagiatsprüfung und AI Detektor nicht verfügbar

A screenshot of the Wordvice AI website. The header features the text "WORDVICE.AI" and a menu icon. The main title is "Kostenloser AI Schreibassistent & Texteditor". Below the title is the subtext "Holen Sie sich jetzt Schreibunterstützung." and a large purple button with the text "Starten Sie kostenlos". On the right side of the page, there are social media icons for LinkedIn, Facebook, Twitter, and Email.

KI-Tools für Textüberarbeitung, Grammatik-Check, stilistische Verbesserungen



WORDVICE.AI

English Log in Upgrade to Premium

AI Proofreader Add to Chrome - It's Free Get Human Proofreading

← Proofreader, Paraphraser, Summarizer etc. auswählbar

publications can more easily be found in academic search engines and databases. Authors can improve the ranking of their publications by adjusting titles, keywords and abstracts. Carefully considered wording makes publications easier to find and, ideally, cited more often. This article is meant to support authors in making their scholarly publications more visible. It provides basic information on ranking mechanisms as well as tips and tricks on how to improve the findability of scholarly publications while also pointing out the limits of

130 / 500 Words

Proofread Now

A vertical sidebar on the left contains icons for various features: a magnifying glass, a document, a shield, a bar chart, a speech bubble, a document with a checkmark, a PDF icon, and a file folder.

The main text area shows several AI-generated suggestions:

- can → can be Clarity issue
- be fou... → discover... Clarity issue
- adjusti... → optimizi... Clarity issue
- keywor... → keywor... Punctuation
- Carefull... → Thought... Clarity issue

Navigation icons at the bottom include a square, a left arrow, a blue checkmark, a green checkmark, a red trash can, and a right arrow.

KI-Tools für Textüberarbeitung, Grammatik-Check, stilistische Verbesserungen



WORDVICE.AI

English Log in Upgrade to Premium

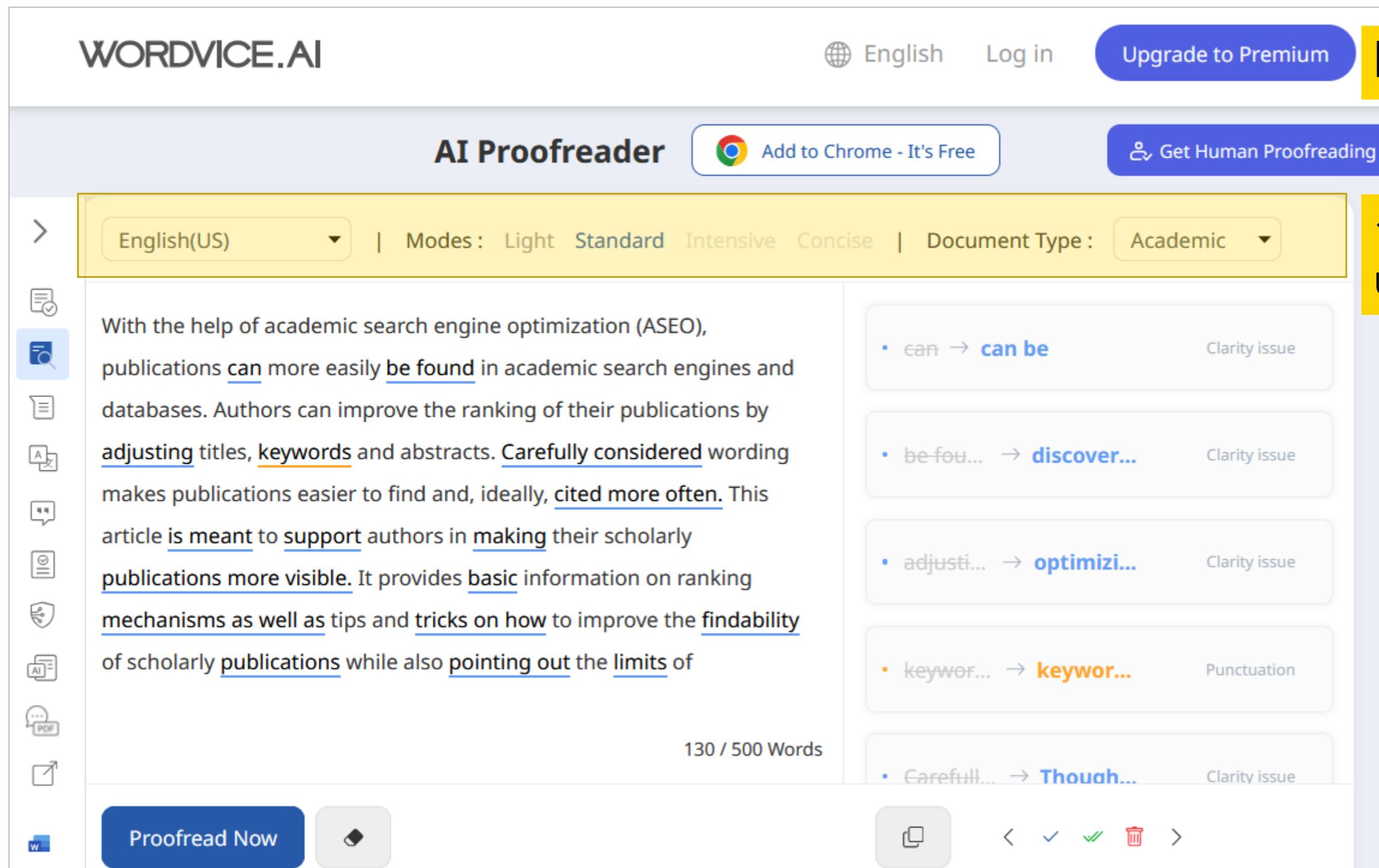
AI Proofreader Add to Chrome - It's Free Get Human Proofreading

English(US) Modes : Light Standard Intensive Concise Document Type : Academic

With the help of academic search engine optimization (ASEO), publications can more easily be found in academic search engines and databases. Authors can improve the ranking of their publications by adjusting titles, keywords and abstracts. Carefully considered wording makes publications easier to find and, ideally, cited more often. This article is meant to support authors in making their scholarly publications more visible. It provides basic information on ranking mechanisms as well as tips and tricks on how to improve the findability of scholarly publications while also pointing out the limits of

130 / 500 Words

Proofread Now



Beispiel: AI Proofreader

← Sprache, Änderungsmodus und Dokumenttyp einstellbar

KI-Tools für Textüberarbeitung, Grammatik-Check, stilistische Verbesserungen



WORDVICE.AI

English Log in Upgrade to Premium

AI Proofreader

Add to Chrome - It's Free Get Human Proofreading

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130 / 500 Words

Proofread Now

← Änderungen werden im Text gekennzeichnet

Beispiel: AI Proofreader

KI-Tools für Textüberarbeitung, Grammatik-Check, stilistische Verbesserungen



WORDVICE.AI

English Log in Upgrade to Premium

AI Proofreader

Add to Chrome - It's Free Get Human Proofreading

English(US) Modes : Light Standard Intensive Concise Document Type : Academic

With the help of academic search engine optimization (ASEO), publications can more easily be found in academic search engines and databases. Authors can improve the ranking of their publications by adjusting titles, keywords and abstracts. Carefully considered wording makes publications easier to find and, ideally, cited more often. This article is meant to support authors in making their scholarly publications more visible. It provides basic information on ranking mechanisms as well as tips and tricks on how to improve the findability of scholarly publications while also pointing out the limits of

130 / 500 Words

Proofread Now

The screenshot shows the WORDVICE.AI AI Proofreader interface. On the left, there's a sidebar with various icons for file operations like copy, paste, save, etc. The main area displays a text document about academic search engine optimization. To the right, a sidebar lists several suggested edits: 'can → can be' (Clarity issue), 'be fou... → discover...' (Clarity issue), 'adjusti... → optimizi...' (Clarity issue), 'keywor... → keywor...' (Punctuation), and 'Carefull... → Thought...' (Clarity issue). A blue button at the bottom right of the sidebar says 'Get Human Proofreading'.

Beispiel: AI Proofreader

← Rechts werden die Verbesserungen angezeigt

KI-Tools für Textüberarbeitung, Grammatik-Check, stilistische Verbesserungen



WORDVICE.AI

English Log in Upgrade to Premium

AI Proofreader Add to Chrome - It's Free Get Human Proofreading

English(US) Modes : Light Standard Intensive Concise Document Type : Academic

With the help of academic search engine optimization (ASEO), publications can more easily be found in academic search engines and databases. Authors can improve the ranking of their adjusting titles, keywords and abstracts. Carefully makes publications easier to find and, ideally, cited article is meant to support authors in making their publications more visible. It provides basic information mechanisms as well as tips and tricks on how to imp of scholarly publications while also pointing out the limits of

can → can be Clarity issue

Bei Klick auf eine Korrektur → öffnen sich Detailinformationen. Verbesserung kann angenommen oder verworfen werden.

This word or phrase makes the meaning unclear. Consider removing or changing for clarity.

✓ Accept Ignore

130 / 500 Words

Proofread Now

Beispiel: AI Proofreader

A screenshot of the WORDVICE.AI AI Proofreader interface. The main text area contains a paragraph about academic search engine optimization (ASEO). A tooltip is overlaid on the word 'can', highlighting it as a 'Clarity issue'. The tooltip text reads: 'This word or phrase makes the meaning unclear. Consider removing or changing for clarity.' It includes 'Accept' and 'Ignore' buttons. The interface also shows language settings (English(US)), proofreading modes (Light, Standard, Intensive, Concise), and document types (Academic). A sidebar on the left has various icons for file operations like copy, paste, and save. At the bottom, there are buttons for 'Proofread Now' and a download icon.

KI-Tools für Textüberarbeitung, Grammatik-Check, stilistische Verbesserungen



WORDVICE.AI

English Log in Upgrade to Premium

AI Paraphraser - Paraphrasing Tool Add to Chrome - It's Free

English Modes: Fluent Academic Professional - formal Professional - friendly Creative

article is meant to support authors in making their scholarly publications more visible. It provides basic information on ranking mechanisms as well as tips and tricks on how to improve the findability of scholarly publications while also pointing out the limits of optimization. This article, authored by three scholarly communications librarians, draws on their experience of hosting journals, providing workshops for researchers and individual publication support, as well as on their investigations of the ranking algorithms of search engines and databases.

Academic Search Engine Optimization facilitates the enhanced discoverability of scholarly publications within search engines and databases. By refining elements such as titles, abstracts, authors can elevate their work. Thoughtful and precise language selection not only improves accessibility but may also increase citation frequency. This article aims to assist authors in augmenting the visibility of their academic outputs by

130 / 500 Words

Paraphrase

Beispiel: AI Paraphraser

- Korrekturen & Umformulierungen
- Änderungen werden farblich gekennzeichnet
- Gratis-Version: Wahl des Stils zwischen Fluent und Academic

KI-Tools für Textüberarbeitung, Grammatik-Check, stilistische Verbesserungen



WORDVICE.AI

English Log in Upg Beispiel: AI Summarizer

AI Summarizer

Summarize in : English Modes : Paragraph Document Type : Research p Length : Short — Long

and, ideally, cited more often. This article is meant to support authors in making their scholarly publications more visible. It provides basic information on ranking mechanisms as well as tips and tricks on how to improve the findability of scholarly publications while also pointing out the limits of optimization. This article, authored by three scholarly communications librarians, draws on their experience of hosting journals, providing workshops for researchers and individual publication support, as well as on their investigations of the ranking algorithms of search engines and databases.

130 / 500 words

Summarize

↑ Sprache, Modus, Dokumenttyp und Textlänge einstellbar

A screenshot of the WORDVICE.AI AI Summarizer interface. On the left, there's a vertical sidebar with various icons for document management. The main area shows a text input box containing a paragraph about scholarly publications and search engine optimization. Above the input box are settings for summarization: language (English), mode (Paragraph), document type (Research paper), and length (set to Short). To the right of the input box is a large yellow callout box with the text "↑ Sprache, Modus, Dokumenttyp und Textlänge einstellbar". At the bottom, there are "Summarize" and "Download" buttons.

KI-Tools für Textüberarbeitung, Grammatik-Check, stilistische Verbesserungen

Wordvice, Toolbaz:

- Generierter Text kann nicht bearbeitet werden
- Keine Option, alternative Formulierungsvorschläge oder Synonyme anzeigen zu lassen

→ Bei DeepLWrite und Quillbot ist das möglich



KI-Tools für Textüberarbeitung, Grammatik-Check, stilistische Verbesserungen



DeepLWrite

<https://www.deepl.com/write>

- Kostenlose Basis-Version derzeit ohne Registrierung nutzbar

A screenshot of the DeepL Write interface. At the top, there's a navigation bar with the DeepL logo, a "Write" button, and three main options: "Text übersetzen" (Over 100 Sprachen), "Dateien übersetzen" (.pdf, .docx, .pptx), and "DeepL Write" (KI-Schreibassistent). The "DeepL Write" option is highlighted with a purple border. Below the navigation, the source language is set to "Englisch (britisch)" and the target language is indicated by a double-headed arrow icon. A large text input area contains the placeholder text: "Text hier eingeben oder einfügen, um Verbesserungsvorschläge zu sehen". Below this, a note says: "Klicken Sie auf ein beliebiges Wort, um Synonyme zu erhalten oder einen Satz umzuformulieren." The background of the interface is white.

KI-Tools für Textüberarbeitung, Grammatik-Check, stilistische Verbesserungen



The screenshot shows the DeepL Write interface. At the top, there are three main buttons: "Text übersetzen" (Translate text), "Dateien übersetzen" (Translate files), and "DeepL Write" (KI-Schreibassistent). Below these are buttons for "Sprache auswählen" (Select language) and "Symbolleiste" (Symbol palette).

The "Sprache auswählen" dropdown is open, showing a list of languages. "Englisch (britisch)" is selected and highlighted with a blue checkmark. Other languages listed include Chinesisch (vereinfacht), Deutsch, Englisch (amerikanisch), Französisch, Italienisch, Japanisch, Koreanisch, Portugiesisch, Portugiesisch (brasiliánisch), and Spanisch. A "Neu" button is available for each language entry.

A large yellow callout box highlights the language selection area with the text: "← Wahl zwischen mehreren Sprachen (Auswahl wird laufend erweitert)".

The main workspace shows a placeholder text "Vorschläge zu" followed by a suggestion: "s Wort, um einen Satz".

KI-Tools für Textüberarbeitung, Grammatik-Check, stilistische Verbesserungen



The screenshot shows the DeepL Write interface. At the top, there are three main buttons: "Text übersetzen" (Translate text), "Dateien übersetzen" (Translate files), and "DeepL Write" (KI-Schreibassistent). The "DeepL Write" button is highlighted with a purple border. Below these buttons, the language is set to "Englisch (britisch)". A yellow callout box with a black border and white text points to the "Symbolleiste" icon (a small window icon) in the top right corner. The text inside the callout box reads: "Klick auf „Symbolleiste“ öffnet verschiedene Optionen" followed by a right-pointing arrow. To the right of the text area, a sidebar titled "Symbolleiste" is visible, containing several settings: "Bearbeitungstools" (Editing tools) with a switch for "Nur korrigieren" (Only correct) set to off; "Stil" (Style) with a dropdown menu set to "Akademisch"; "Änderungen anzeigen" (Show changes) with a switch set to off; "Anpassung" (Adjustment) with a "Pro" button; "Stilregeln" (Style rules); and "Begriffe" (Terms).

With the help of academic search engine optimization (ASEO), publications can more easily be found in academic search engines and databases. Authors can improve the ranking of their publications by adjusting titles, keywords and abstracts. Carefully considered wording makes publications easier to find and, ideally, cited more often. This article is meant to support authors in making their scholarly publications more visible. It provides basic information on ranking mechanisms as well as tips and tricks on how to improve the findability of scholarly publications while also pointing out the limits of optimization. This article, authored by three scholarly communications librarians, draws on their experience of hosting journals, providing workshops for researchers and individual publication support, as well as on

Academic search engine optimisation (ASEO) ma publications more easily findable in academic sea and databases. Authors can improve the ranking publications by adjusting their titles, keywords, an Carefully chosen wording makes publications eas and, ideally, more likely to be cited. This article air authors make their scholarly publications more vi provides basic information on ranking mechanism as tips on how to improve the discoverability of so publications, while also highlighting the limitation optimisation. Written by three scholarly commun librarians, the article draws on their experience of journals, delivering workshops to researchers, pro individual publication support and investigating the ranking

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The screenshot shows the DeepL Write interface. At the top, there are three main buttons: "Text übersetzen" (Translate text), "Dateien übersetzen" (Translate files), and "DeepL Write" (KI-Schreibassistent). The "DeepL Write" button is highlighted with a purple border. Below the buttons, there are two dropdown menus for language selection: "Englisch (britisch)" on the left and a blank "→" symbol on the right. To the right of the text area, there is a sidebar with several options: "Symbolleiste" (Symbol palette), "Bearbeitungstools" (Editing tools), and three checkboxes: "Nur korrigieren" (Only correct) with a toggle switch, "Stil" (Style) with a dropdown menu set to "Akademisch", and "Änderungen anzeigen" (Show changes) with a checked toggle switch. A yellow callout box points to the "Änderungen anzeigen" checkbox, containing the text: "„Änderungen anzeigen“: blendet die korrigierten Textstellen zusätzlich ein". The main text area contains a paragraph about academic search engine optimization (ASEO) and its benefits for publications.

With the help of academic search engine optimization (ASEO), publications can more easily be found in academic search engines and databases. Authors can improve the ranking of their publications by adjusting titles, keywords and abstracts. Carefully considered wording makes publications easier to find and, ideally, cited more often. This article is meant to support authors in making their scholarly publications more visible. It provides basic information on ranking mechanisms as well as tips and tricks on how to improve the findability of scholarly publications while also pointing out the limits of optimization. This article, authored by three scholarly communications librarians, draws on their experience of hosting journals, providing workshops for researchers and individual publication support, as well as on

With the help → The utilisation of academic search optimization (ASEO); publications can more easily be found in academic search engines and databases. Authors can improve → It is possible for authors to enhance the visibility of their publications by making adjustments to their titles, keywords and abstracts. Carefully considered → consideration of the wording makes it easier to find → facilitates their discovery and citation. The purpose of this article is meant to support authors in making → enhancing the visibility of their scholarly publications more visible. It provides basic information on ranking mechanisms as well as tips and tricks on how to improve the findability of scholarly publications while also pointing out the limits of optimization. This article, authored by three scholarly communications librarians, draws on their experience of hosting journals, providing workshops for researchers and individual publication support, as well as on

„Änderungen anzeigen“: blendet die korrigierten Textstellen zusätzlich ein ↑

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Umformulieren Wort austauschen X optimization

(ASEO) facilitates the increased visibility of publications or within academic search engines and databases. It is possible for authors to enhance the ranking of their publications by making adjustments to titles, keywords and abstracts.

It is possible for authors to enhance the ranking of their publications by making adjustments to titles, keywords and abstracts.

The adjustment of titles, keywords and abstracts has been shown to be an effective strategy for authors looking to improve the ranking of their publications (Smith, 2020).

highlights the limitations of optimization. The present article, authored by three librarians specialising in scholarly communications, draws on their experience of hosting journals, providing workshops for researchers and individual

- korrigierte Wörter und Sätze sind anklickbar
- Synonyme und andere Satzformulierungen werden vorgeschlagen

KI-Tools für Textüberarbeitung, Grammatik-Check, stilistische Verbesserungen



Quillbot

<https://quillbot.com/>

- Registrierung erforderlich
- Sammlung von Tools, z.B.:
 - Paraphraser
 - Grammar Checker
 - Plagiarism Checker
 - AI Detector
 - Humanizer
 - Summarizer

The screenshot shows the QuillBot homepage. At the top left is the QuillBot logo. At the top right are two buttons: "Upgrade to Premium" and a user icon with the letter "K". The main heading is "What are you working on today?". Below it are six cards arranged in a 3x2 grid, each representing a different AI tool:

- Paraphrasing Tool >** Increase fluency (green icon)
- Grammar Checker >** Fix mistakes (red icon with a checkmark)
- Plagiarism Checker >** Prevent plagiarism (orange icon with a magnifying glass)
- AI Detector >** Analyze text (orange icon with a hexagon)
- AI Humanizer >** Humanize text (green icon with a brain)
- AI Chat >** Generate ideas (blue icon with a speech bubble)

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 QuillBot

Paraphrasing Tool



← Paraphraser, Grammar Checker, Summarizer etc. auswählbar

All

With the help of academic search engine optimization (ASEO), publications can more easily be found in academic search engines and databases. Authors can improve the ranking of their publications by adjusting titles, keywords and abstracts. Carefully considered wording makes

Academic search engine optimization (ASEO) makes it easier to find publications in academic databases and search engines. By making changes to their titles, keywords, and abstracts, authors can raise the rating of their publications. Publications with well-considered terminology are easier to locate and, ideally, are

Paraphraser
Grammar Checker
AI Detector
Plagiarism Checker
AI Humanizer
AI Chat

KI-Tools für Textüberarbeitung, Grammatik-Check, stilistische Verbesserungen



QuillBot

Paraphrasing Tool

Beispiel: Paraphraser

The screenshot shows the QuillBot interface. On the left, there's a sidebar with icons for various tools: Paraphraser (selected), Grammar Checker, AI Detector, Plagiarism Checker, AI Humanizer, and AI Chat. The main area is titled "Paraphrasing Tool". It has a language dropdown set to "English (US)" with other options like French, Spanish, German, and All. Below that is a "Modes" section with "Standard" selected and a "Synonyms" slider. The main text area contains a sentence: "With the help of academic search engine optimization (ASEO), publications can more easily be". A callout box points to this sentence with the text: "← Sprache, Modus und Ausmaß der Verwendung von Synonymen einstellbar". Below the text, a dropdown menu shows alternative formulations: "Academic search engine optimization (ASEO) makes it easier to find publications in academic databases and search engines.", "Academic search engine optimization (ASEO) makes it easier to locate publications in academic databases and search engines.", and "Publications can be more readily located in academic search engines and databases with the aid of academic search engine optimization (ASEO)". A callout box points to the first alternative with the text: "← Änderungen sind farbcodiert; Mit Klick auf ein Wort werden Synonyme angezeigt." Another callout box points to the second alternative with the text: "← Mit Klick auf eine Phrase kann man andere Formulierungen wählen".

← Sprache, Modus und Ausmaß der Verwendung von Synonymen einstellbar

← Änderungen sind farbcodiert; Mit Klick auf ein Wort werden Synonyme angezeigt.

← Mit Klick auf eine Phrase kann man andere Formulierungen wählen

KI-Tools für Textüberarbeitung, Grammatik-Check, stilistische Verbesserungen



 QuillBot

Summarizer

Beispiel: Summarizer

Paraphraser

Grammar Checker

AI Detector

Plagiarism Checker

AI Humanizer

More

Modes: **Paragraph** Bullet Points Custom

Summary Length: Short Long

With the help of academic search engine optimization (ASEO), publications can more easily be found in academic search engines and databases. Authors can improve the ranking of their publications by adjusting titles, keywords and abstracts. Carefully considered wording makes publications easier to find and, ideally, cited more often. This article is meant to support authors in making their scholarly publications citation potential. This article aids authors in optimizing their scholarly works by outlining ranking mechanisms and offering practical

↑ Modus und Länge der Zusammenfassung einstellbar

← Unverändert in die Zusammenfassung übernommene Passagen werden im Ausgangstext blau gekennzeichnet

KI-Tools für Übersetzungen

Einige der genannten Tools zur Textbearbeitung
bieten auch ein Übersetzungstool:

- DeepL
- Wordvice AI Translator
- Quillbot Translator



KI-Tools für Übersetzungen



DeepL Übersetzer DeepL Pro Kostenlose Probeabo starten Anmelden

Englisch (erkannt) Deutsch

With the help of academic search engine optimization (ASEO), publications can more easily be found in academic search engines and databases. Authors can improve the ranking of their publications by adjusting titles, keywords and abstracts. Carefully considered wording makes publications easier to find and, ideally, cited more often. This article is meant to support authors in making their scholarly publications more visible.

Mit Hilfe der akademischen Suchmaschinenoptimierung (ASEO) können Publikationen in wissenschaftlichen Suchmaschinen und Datenbanken leichter gefunden werden. Autoren können das Ranking ihrer Publikationen durch die Anpassung von Titeln, Schlüsselwörtern und Zusammenfassungen verbessern. Gute Wortwahl macht Publikationen einfacher zu finden und sie werden idealerweise häufiger zitiert. Dieser Artikel ist dazu gedacht, Autoren dabei zu unterstützen, ihre wissenschaftlichen Publikationen sichtbarer zu machen.

Mit Klick auf ein Wort → ist die Auswahl von Synonymen möglich machen.

Wörterbuch

← Zahlreiche Sprachen zur Auswahl über Drop-Down-Menüs

Datenbanken ...
Suchdiensten ...
Suchsystemen ...
Forschungsdatenbanken ...
Suchmaschinen ...
Suchmotoren ...
Suchmaschinen ...
Suchmaschine ...

KI-Tools für Übersetzungen



The screenshot shows the WORDVICE.AI AI Translator interface. At the top, there's a navigation bar with "WORDVICE.AI", "English" (selected), "Log in", and a blue "Upgrade to Premium" button. Below this is the "AI Translator" section with "Add to Chrome - It's Free". The main area has two dropdown menus: "English" on the left and "German" on the right. A vertical sidebar on the far left contains various icons for different features like document analysis, AI writing, and PDF conversion. The main content area displays a text comparison between English and German. The English text is:

With the help of academic search engine optimization (ASEO), publications can more easily be found in academic search engines and databases. Authors can improve the ranking of their publications by adjusting titles, keywords and abstracts. Carefully considered wording makes publications easier to find and, ideally, cited more often. This article is meant to support authors in making their scholarly publications more visible.

The German translation is:

Mit Hilfe von akademischer Suchmaschinenoptimierung (ASEO) können Publikationen in akademischen Suchmaschinen und Datenbanken leichter gefunden werden. Autoren können das Ranking ihrer Publikationen verbessern, indem sie Titel, Schlüsselwörter und Abstracts anpassen. Sorgfältig überlegte Formulierungen machen Publikationen leichter auffindbar und idealerweise häufiger zitiert. Dieser Artikel soll Autoren dabei unterstützen, ihre wissenschaftlichen Veröffentlichungen sichtbarer zu machen.

Annotations on the right side highlight specific features:

- A yellow callout box points to the language dropdowns with the text: "← Zahlreiche Sprachen zur Auswahl über Drop-Down-Menüs".
- A second yellow callout box points to the sidebar with the text: "← Keine Anzeige/Auswahl von Synonymen möglich".

KI-Tools für Übersetzungen



The screenshot shows the QuillBot interface with a sidebar of tools and a main content area. The sidebar includes: Paraphraser, Grammar Checker, AI Detector, Plagiarism Checker, AI Humanizer, More, and QuillBot Premium. The main content area has tabs for Translate, Apps and Extensions, and Upgrade to Premium. A yellow callout highlights the language selection dropdowns: English (US) (detected) and German. Another yellow callout highlights a tooltip for the 'Publikationen' word in the text, which lists Synonyms like Werke, Artikel, Bücher, and Dokumente. A third yellow callout highlights a tooltip for the word 'anpassen', which lists related terms like ändern, ändern, erneuern, and aktualisieren.

QuillBot

Translate Apps and Extensions Upgrade to Premium

Paraphraser

Grammar Checker

AI Detector

Plagiarism Checker

AI Humanizer

More

QuillBot Premium

English (US) (detected)

German

With the help of academic search engine optimization (ASEO), publications can more easily be found in academic search engines and databases. Authors can improve the ranking of their publications by adjusting titles, keywords and abstracts. Carefully considered wording makes publications easier to find and, ideally, cited more often. This article is meant to support

Mit Hilfe der akademischen Suchmaschinenoptimierung (ASEO) können Publikationen

Synonyms

Werke

Artikel

Bücher

Dokumente

← Zahlreiche Sprachen zur Auswahl über Drop-Down-Menüs

← Mit Klick auf ein Wort werden Synonyme angezeigt

und Abstracts anpassen. Sorgfältig überlegte Formulierungen machen Publikationen leichter auffindbar

902 / 5,000 → Translate

KI-Tools zur Überprüfung eines Manuskripts auf inhaltliche Schwächen

- AcademicGPT
- Enago AuthorOne (sehr ausführlich, aber \$29/paper)
- ResearchReviewer (Voraussetzung: ChatGPT Plus)

Für einzelne Fachgebiete:

- SciScore (Lebenswissenschaften)
- RobotReviewer (Medizin, klinische Studien)



KI-Tools zur Überprüfung eines Manuskripts auf inhaltliche Schwächen



Beispiel: AcademicGPT, <https://academicgpt.net/>

- Paper hochladen
- Auswahl zwischen „Write“, „Feedback“ und „Explain“ und Drop-Down-Menü mit weiteren Auswahlmöglichkeiten:

AcademicGPT

Drop research paper here or click to select

Write Feedback Explain

Select what type of section the AI should write

Abstract

Abstract
Conclusion
Summary
Future work section
Ethical considerations section
Presentation outline

AcademicGPT

Drop research paper here or click to select

Write Feedback Explain

Select what type of feedback you want from the AI

Argument strength

Argument strength
Language
Coherency
Originality
Citation

AcademicGPT

Drop research paper here or click to select

Write Feedback Explain

Select how complicated the AI's explanation should be

Simple and Short

Simple and Short
Simple and Long
Complex and Short
Complex and Long

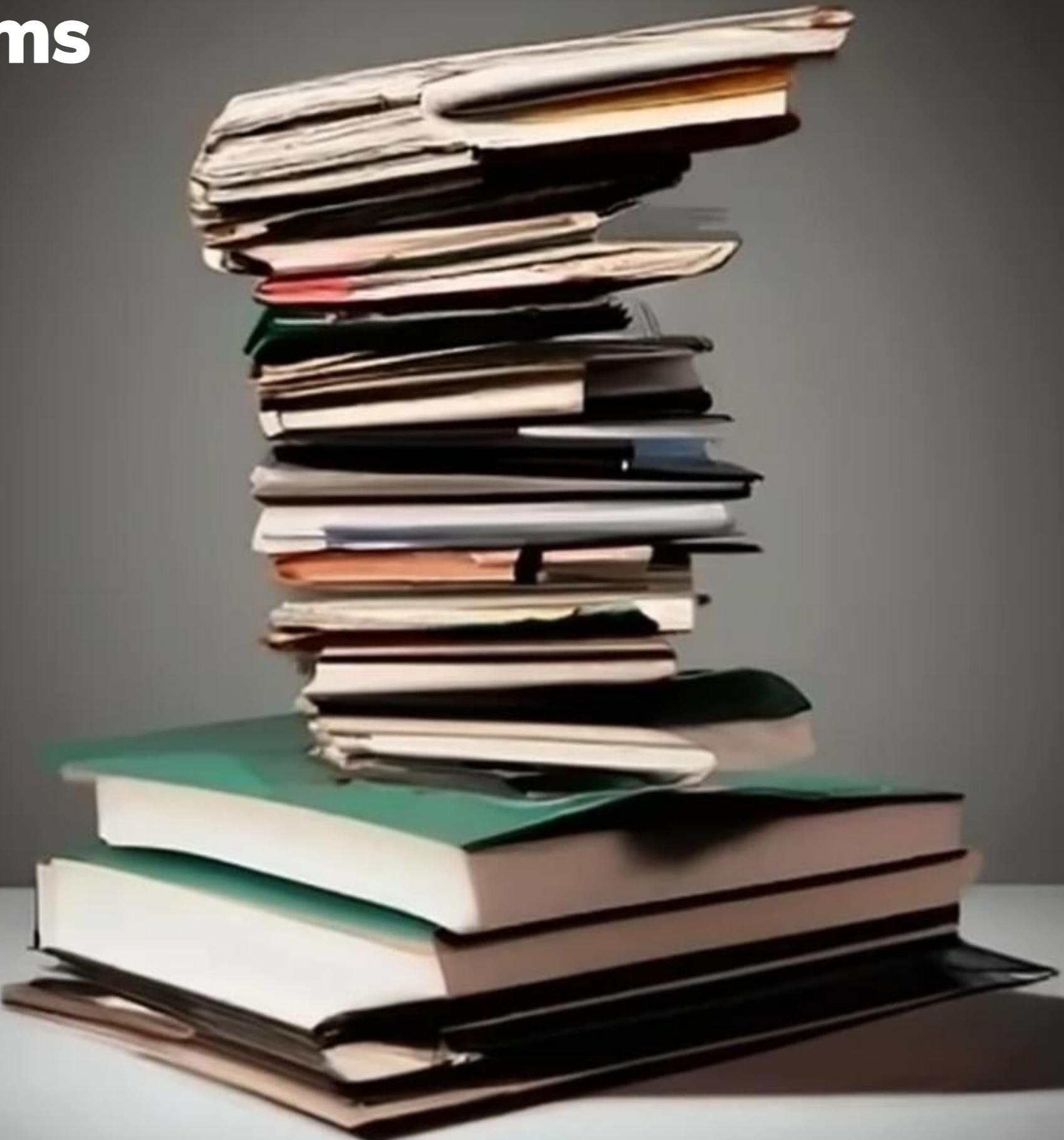
Journal Recommender Systems

Systeme von Verlagen

- In der Regel ohne Registrierung nutzbar
- Man gibt meist Titel und/oder Abstract und/oder Keywords ein
- Ergebnisliste meist absteigend nach Relevanz sortiert

Beispiele:

- [Wiley Journal Finder](#)
- [IEEE Publication Recommender](#)
- [Elsevier's JournalFinder](#)
- [Taylor & Francis' Journal Suggester](#)
- [Sage Journal Recommender](#)



Journal Recommender Systems

Verlagsunabhängige Systeme

Beispiele:

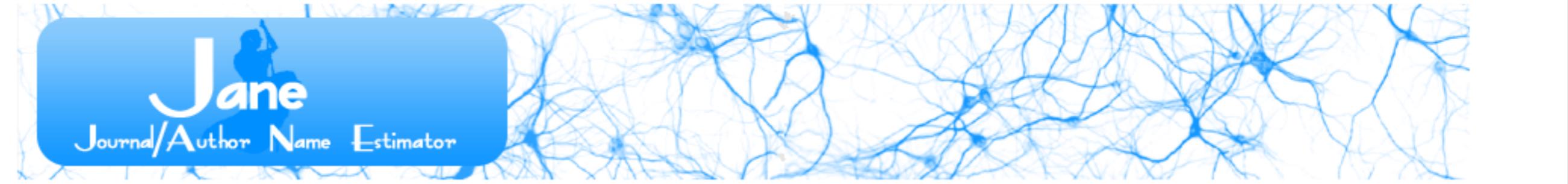
- The Journal/Author Name Estimator (JANE)
-> nur PubMed/MEDLINE, d.h. nur für
Medizin und Lebenswissenschaften geeignet
- EndNote Manuscript Matcher -> nur nutzbar
mit Endnote-Lizenz



Journal Recommender Systems



Journal/Author
Name Estimator
(JANE):



The background of the page features a complex, abstract network graph composed of numerous blue lines of varying thicknesses, resembling a neural network or a complex web of connections.

Jane
Journal/Author Name Estimator

Insert your title and/or abstract here: (or, click [here](#) to search using keywords)

Assessing honeybee and wasp thermoregulation and energetics - New insights by combination of flow-through respirometry with infrared thermography

Scramble Clear Show extra options

Find journals Find authors Find articles

Welcome to Jane

Have you recently written a paper, but you're not sure to which journal you should submit it? Or maybe you want to find relevant articles to cite in your paper? Or are you an editor, and do you need to find reviewers for a particular paper? Jane can help!

Just enter the title and/or abstract of the paper in the box, and click on 'Find journals', 'Find authors' or 'Find Articles'. Jane will then compare your document to millions of documents in PubMed to find the best matching journals, authors or articles.

Keyword search

Instead of using a title or abstract, you can also search using a keyword search, similar to popular web search engines. Click [here](#) to search using keywords.

Beware of predatory journals

JANE relies on the data in PubMed, which can contain papers from predatory journals, and therefore these journals can appear in JANE's results. To help identify high-quality journals, JANE now tags journals that are currently indexed in MEDLINE, and open access journals.

Journal Recommender Systems



Journal/Author
Name Estimator
(JANE):

Jane

These journals have articles most similar to your input:
"Assessing honeybee and wasp thermoregulation and energetics - New insights by combination of flow-th..."

Confidence	Journal	Article	Articles
0.9	Sensors (Basel, Switzerland) High-quality open access Medline-indexed PMC	Show articles	Show articles
0.8	PloS one High-quality open access Medline-indexed PMC	Show articles	Show articles
0.7	The Journal of experimental biology Medline-indexed PMC	Show articles	Show articles
0.6	Journal of thermal biology Medline-indexed	0.5	Show articles
0.5	Scientific reports High-quality open access Medline-indexed PMC	1.9	Show articles
0.4	Animals : an open access journal from MDPI High-quality open access Medline-indexed PMC	0.5	Show articles
0.3	Journal of insect physiology Medline-indexed	0.7	Show articles
0.2	The Review of scientific instruments Medline-indexed PMC	0.5	Show articles
0.1	J Comp Physiol B Medline-indexed	0.7	Show articles
0.0	ACS chemical biology Medline-indexed	2.0	Show articles
-0.1	Proceedings. Biological sciences Medline-indexed PMC	2.3	Show articles
-0.2	Pediatrics international : official journal of the Japan Pediatric Society Medline-indexed	0.3	Show articles
-0.3	Applied sciences (Basel, Switzerland) High-quality open access	0.4	Show articles
-0.4	Adipocyte High-quality open access Medline-indexed PMC	0.7	Show articles
-0.5	Diabetes technology & therapeutics Medline-indexed PMC	0.7	Show articles
-0.6	J Comp Physiol A Neuroethol Sens Neural Behav Physiol Medline-indexed	0.7	Show articles
-0.7	International wound journal High-quality open access Medline-indexed PMC	0.6	Show articles
-0.8	Biology letters Medline-indexed PMC	1.4	Show articles
-0.9	Pharmaceutics High-quality open access PMC	0.7	Show articles

KI im Peer-Review-Prozess



- Zukünftig werden noch mehr Reviewer gebraucht werden
- Reviewer dürfen nicht die Texte von submissions in cloud-basierte KI Tools hochladen
 - Manche Verlage schließen auch lokale KI Systeme aus
- Verlagsrichtlinien beachten!

KI im Peer Review Prozess



Vorteile

- Automatisierung von zeitintensiven Tätigkeiten
- KI als unterstützendes Werkzeug für Redakteure und Gutachter
- Nutzung von KI für Entscheidungsschreiben und Gutachterkommentare
- Referenzprüfung möglich
- Methode und Struktur überprüfen (penelope.ai)

Nachteile

- Gefahr unzuverlässiger und inhaltlich falscher Ergebnisse
- Diskriminierung aufgrund der biases von LLMs
- mangelnde Vertraulichkeit wertvoller Forschungsdaten und geschützter Informationen durch cloud upload
- Mögliche Plagiate im Gutachten
- Kontextverständnis fehlt: Nuancen, Fachtraditionen, Disziplin-Standards

Quelle: <https://blog.cabells.com/2023/09/13/the-role-of-generative-artificial-intelligence-in-peer-review/>

KI im Peer Review Prozess



- Manche großen Förderorganisationen haben den Einsatz von KI im Peer Review Prozess von Grant Proposals bereits verboten:
 - z.B.: NIH, Australian Research Council
- Verlage gehen unterschiedliche Wege:
 - Bewusster Einsatz von KI Tools um Review-Zeitspannen zu kürzen
 - Bewusster Ausschluss von KI Tools, u.a. aus Gründen der Verschwiegenheit (Elsevier)

When a subject matter expert is invited to participate in the review process, the material/manuscript must be treated as confidential. Reviewers should not upload the material/manuscript or any part thereof into a generative AI tool as this may violate Elsevier's and/or the authors' confidentiality and proprietary rights and, where the material/manuscript contains personally identifiable information, may breach data privacy rights.

Wie gut ist das derzeitige Peer Review überhaupt?

- Peer Reviewed
- Zeitschrift indexiert in Web of Science, IF 5.8
- „Regenerate response“ stammt aus ChatGPT

- Reviewer?
- Editor?
- Type setting?

<https://pubpeer.com/publications/83DCF77815DC61C4ED6DCD88847EC4>

poverty, making it a social and economic issue (Chen et al. 2022a, b, c).

Methodology

Research data

The study utilized annual time series data from secondary sources. The revised data from 1990 to 2020 was used to examine renewable power. Due to a lack of information, the energy consumption dataset covered from 1984 to 2015. The study includes detailed information about the data sources, connections, variables, and descriptions. Previous research has used various greenhouse gas (GHG) indicators of environmental contamination. However, CO₂ is widely regarded as the most harmful greenhouse contaminant and thus was chosen as the benchmark for this study. Green finance is expected to significantly impact long-term economic development, mainly through its support for renewable energy usage. Therefore, renewable energy consumption was chosen as an indicator of the level of green finance. The Chinese Statistical Yearbook provided GDP (constant 1990 RMB¥), power usage, and power production data, while the World Bank Database provided CO₂ emission, renewable energy consumption, and value-added agricultural data. To simplify the analysis, all values were transformed into a uniform format. Regenerate response.

Wie gut ist das derzeitige Peer Review überhaupt?



- Peer Reviewed
- „Certainly, here is“ ist ein typischer Anfang einer Prompt Antwort
- stammt aus ChatGPT

in for the products and provide their owners the right to request delivery of the items from the carrier. The ability to sell products while they are in route is a crucial feature of transport papers in international trade.

REVIEW OF LITERATURE

Certainly! Here is a review of the literature on the carriage of goods under international commercial law:

"Carriage of Goods by Sea" by John Wilson: This book provides a comprehensive overview of the legal principles governing the carriage of goods by sea. It covers the Hague-Visby Rules, the Rotterdam Rules, and other relevant international conventions. The author explores topics

Wie gut ist das derzeitige Peer Review überhaupt?



- Peer Reviewed
- „Certainly, here is“ ist ein typischer Anfang einer Prompt Antwort
- stammt aus ChatGPT

1. Introduction

Certainly, here is a possible introduction for your topic: Lithium-metal batteries are promising candidates for high-energy-density rechargeable batteries due to their low electrode potentials and high theoretical capacities [1], [2]. However, during the cycle, dendrites forming on the lithium metal anode can cause a short circuit, which can affect the safety and life of the battery [3], [4], [5], [6], [7], [8], [9]. Therefore, researchers are

„Tortured phrases“



- Durch automatische Übersetzungen die darauf bedacht sind keine Plagiate zu erstellen wurden aus Fachbegriffen sog. „tortured phrases“
- Hunderte Papers mit derartigen Phrasen wurden bereits gefunden
- Wo war das Peer Review in diesen Fällen?

Tortured phrases found in computer-science papers

Scientific term	Tortured phrase
Big data	Colossal information
Artificial intelligence	Counterfeit consciousness
Deep neural network	Profound neural organization
Remaining energy	Leftover vitality

<https://doi.org/10.1038/d41586-021-02134-0>

KI-Tools für Peer Review



Research Reviewer

- Basiert auf ChatGPT
- ChatGPT Plus notwendig
- Für die Überprüfung eigener Manuskripte geeignet
- Sample prompts:
 - Give me a rating of this paper
 - List strengths and weaknesses
 - Write a short summary to editor
 - Show me detailed review
- <https://theresanaforthat.com/gpt/research-reviewer/>



Reviewer finden mit KI



- Manche Verlage bieten ihren Editors Reviewer Finder Tools, z.B. Springer (hat einen eigenen Reviewer Finder) und Wiley (kooperiert mit Web of Science Reviewer Recognition Service)
- Manche Softwares zur Verwaltung von Zeitschriften haben ein Feature zum Finden von Reviewers eingebunden, z.B. den Web of Science Reviewer Locator (ScholarOne Manuscripts, Editorial Manager)

AI detection tools & Tipps zum praktischen Umgang mit KI

AI detection tools



- KI durch KI aufspüren lassen
- Oft false positives
- Das hauseigene detection tool „AI classifier“ von ChatGPT wurde wieder eingestellt, weil es nicht verlässlich genug war (9% false positives)
- **UndetectableAI**, **HideMyAI**, und **QuillBot** sind die Antwort auf AI detection tools. Sie machen die Sprache wieder „menschlicher“
- Kostspieliges Katz-und-Maus-Spiel
- Turnitin hat einen eigenen AI detector mit 1% false positive rate
- Universitäten in den USA haben das AI detection tool von Turnitin wieder abgestellt

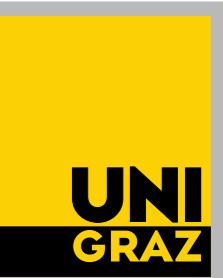
Vanderbilt submitted 75,000 papers to Turnitin in 2022. If this AI detection tool was available then, around 3,000 student papers would have been incorrectly labeled as having some of it written by AI.

Tipps zum Schreiben mit genKI



- Checkliste: Einsatz von genKI beim wiss. Schreiben (von Franziska Gürtl, Schreibzentrum Graz)
 - Zielgruppe Studierende aber auch für Forschende interessant!
 - Weiterführende Materialien zum Schreiben mit genKI
 - Angebote des Schreibzentrums für Lehrende
- Tipps zur Gestaltung von Titel, Keywords und Abstracts
 - Informativ schreiben, Synonyme verwenden, keinen Platz „verschwenden“

Artificial neural networks for quantitative online NMR spectroscopy



By: Kern, S (Kern, Simon) ^{1, 2}; Liehr, S (Liehr, Sascha) ³; Wander, L (Wander, Lukas) ¹;
Bornemann-Pfeiffer, M (Bornemann-Pfeiffer, Martin) ¹; Muller, S (Mueller, Simon) ⁴; Maiwald, M (Maiwald, Michael) ¹;
Kowarik, S (Kowarik, Stefan) ^{3, 5}

[View Web of Science ResearcherID and ORCID \(provided by Clarivate\)](#)

ANALYTICAL AND BIOANALYTICAL CHEMISTRY

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Abstract

Industry 4.0 is all about interconnectivity, sensor-enhanced process control, and data-driven systems. Process analytical technology (PAT) such as online nuclear magnetic resonance (NMR) spectroscopy is gaining in importance, as it increasingly contributes to automation and digitalization in production. In many cases up to now, however, a classical evaluation of process data and their transformation into knowledge is not possible or not economical due to the insufficiently large datasets available. When developing an automated method applicable in process control, sometimes only the basic data of a limited number of batch tests from typical product and process development campaigns are available. However, these datasets are not large enough for training machine-supported procedures. In this work, to overcome this limitation, a new procedure was developed, which allows physically motivated multiplication of the available reference data in order to obtain a sufficiently large dataset for training machine learning algorithms. The underlying example chemical synthesis was measured and analyzed with both application-relevant low-field NMR and high-field NMR spectroscopy as reference method. Artificial neural networks (ANNs) have the potential to infer valuable process information already from relatively limited input data. However, in order to predict the concentration at complex conditions (many reactants and wide concentration ranges), larger ANNs and, therefore, a larger training dataset are required. We demonstrate that a moderately complex problem with four reactants can be addressed using ANNs in combination with the presented PAT method (low-field NMR) and with the proposed approach to generate meaningful training data.

Artificial neural networks for quantitative online NMR spectroscopy



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S Kem, S Liehr, L Wander... - *Analytical and ...*, 2020 - Springer

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Di., 18.11.2025, 10:30–12:00

Publishing in Nature Journals and Editorial Insights

Dr. Efi Rousi (Springer Nature)

Do., 27.11.2025, 16:00–17:00

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Publikationsförderung & Open-Access-Abkommen

Fr., 16.01.2026, 11:00–12:00

Publizieren in den Rechts- wissenschaften – Einblicke aus dem Manz Verlag

Mag. Heinz Korntner (Manz Verlag)

Mo., 19.01.2026, 16:00–17:30

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Präsenz-Veranstaltungen

Publish or Perish? Challenges and Regulations of Scientific Publishing Practice

Mi., 14.01.2026, 09:00–13:00

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- ERC: Foresight: Use and impact of Artificial Intelligence in the scientific process https://erc.europa.eu/sites/default/files/2023-12/AI_in_science.pdf
- Elsevier Policy on AI
<https://www.elsevier.com/about/policies-and-standards/responsible-ai-principles>
- COPE guidelines <https://publicationethics.org/cope-position-statements/ai-author>
- Best practices or reporting the use of Gen AI in Research: <https://midas.umich.edu/generative-ai-reporting-guidelines/>
- Best practices for using AI when writing scientific manuscripts: <https://pubs.acs.org/doi/10.1021/acsnano.3c01544>
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- AI in academia: An overview of selected tools and their areas of application: <https://doi.org/10.53880/2744-2373.2023.4.37>
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