

Наследие Герберта Шлангеманна, или Как опубликовать научную статью

Сергей Николенко

СПбГУ

25 декабря 2024



Content warning: explicit language, sexual references

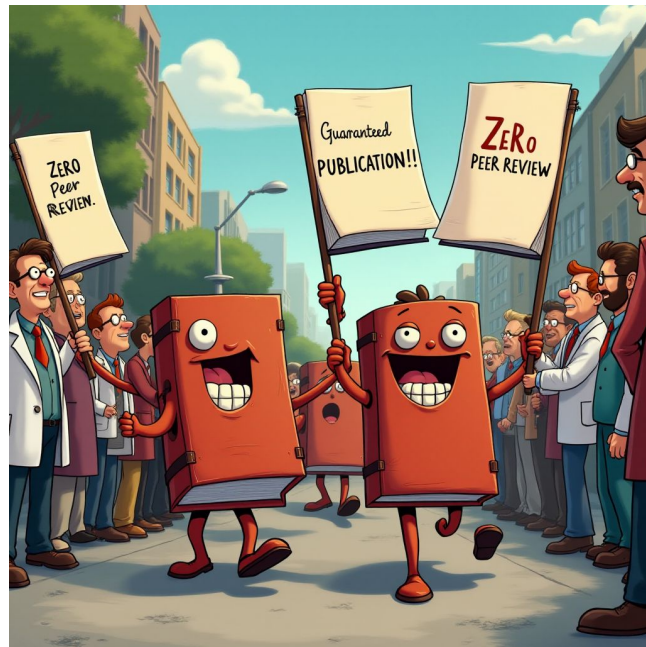
Наш план

- AI делает в науке всё больше
- Скоро мы будем жить в мире, где:
 - AI сам придумывает идеи для исследований
 - AI сам пишет код экспериментов, сам обрабатывает данные
 - и, конечно, сам пишет научные статьи
- Но как учёные готовились к приходу искусственного интеллекта?
- Какие были прецеденты того, что ждёт нас в скором будущем (или уже дождались)?



Бредовые статьи

- Все вы знаете истории о том, как недобросовестные журналы принимали бредовые статьи
- Возможно, для вас это ассоциируется с заведомо фейковыми “журналами из списка ВАК” или “journals of multidisciplinary research”, которые и не претендуют на настоящую науку
- Но вот как всё это начиналось...



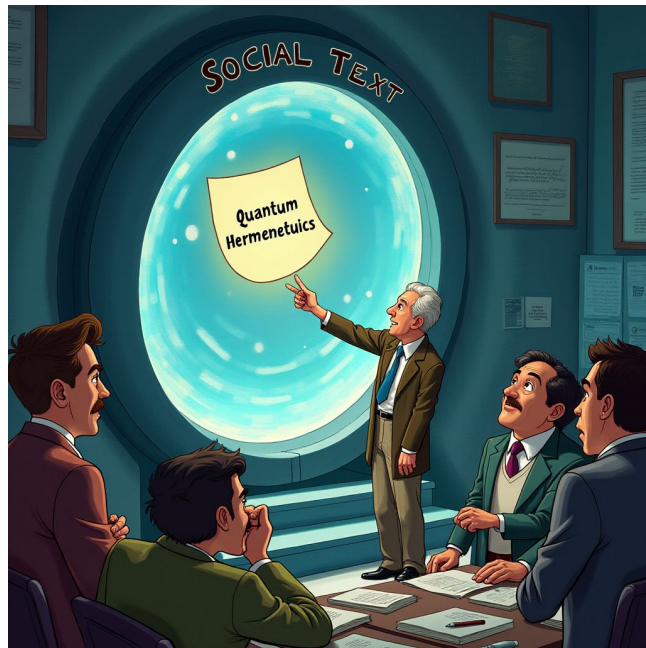


Sokal affair

- В 1996 г. физик Алан Сокаль (Alan Sokal) подал статью в *Social Text*, основанный в 1979 г. журнал, у которого сейчас IF ~11

Transgressing the Boundaries:
Towards a Transformative Hermeneutics
of Quantum Gravity

Alan D. Sokal
Department of Physics
New York University
4 Washington Place
New York, NY 10003 USA





Sokal affair

- Эту статью, конечно, написал человек, и чтобы понять, что она бессмысленна, в неё действительно надо вчитаться
- Morphogenetic field – это псевдонаучная new age концепция

Finally, an exciting proposal has been taking shape over the past few years in the hands of an interdisciplinary collaboration of mathematicians, astrophysicists and biologists: this is the theory of the morphogenetic field.⁴⁶ Since the mid-1980's evidence has been accumulating that this field, first conceptualized by developmental biologists⁴⁷, is in fact closely linked to the quantum *gravitational* field⁴⁸: (a) it pervades all space; (b) it interacts with all matter and energy, irrespective of whether or not that matter/energy is magnetically charged; and, most significantly, (c) it is what is known mathematically as a “symmetric second-rank tensor”. All



Sokal affair

- А главный смысл был в критике левой философии, деконструктивизма и т.д.

⁵⁸In bourgeois social psychology, topological ideas had been employed by Kurt Lewin as early as the 1930's, but this work foundered for two reasons: first, because of its individualist ideological preconceptions; and second, because it relied on old-fashioned point-set topology rather than modern differential topology and catastrophe theory. Regarding the second point, see Back (1992).

¹⁰⁵Just as liberal feminists are frequently content with a minimal agenda of legal and social equality for women and “pro-choice”, so liberal (and even some socialist) mathematicians are often content to work within the hegemonic Zermelo-Fraenkel framework (which, reflecting its nineteenth-century liberal origins, already incorporates the axiom of equality) supplemented only by the axiom of choice. But this framework is grossly insufficient for a liberatory mathematics, as was proven long ago by Cohen (1966).



Sokal affair

- Тем не менее, редакторы получили свой приз

The 1996 Ig Nobel Prize Winners

LITERATURE: The editors of the journal *Social Text*, for eagerly publishing research that they could not understand, that the author said was meaningless, and which claimed that reality does not exist.

REFERENCE: The paper was “Transgressing the Boundaries: Toward a Transformative Hermeneutics of Quantum Gravity,” Alan Sokal, *Social Text*, Spring/Summer 1996, pp. 217-252.



SClgen

- SClgen (2005) – это уже система автоматического порождения научных статей по computer science
- Авторы из MIT подавали порождённые статьи под именем Herbert Schlangemann; это название игрушки из шуточной рекламы на псевдонемецком



SClgen

- Первый успех – статью про Rooter приняли на WMSCI 2005
- Конференция до сих пор существует:

THE 28TH WORLD MULTI-CONFERENCE ON

SYSTEMICS, CYBERNETICS AND INFORMATICS: WMSCI 2024[©]

September 10 - 13, 2024 ~ Virtual Conference

Router: A Methodology for the Typical Unification of Access Points and Redundancy

Jeremy Stribling, Daniel Aguayo and Maxwell Krohn

ABSTRACT

Many physicists would agree that, had it not been for congestion control, the evaluation of web browsers might never have occurred. In fact, few hackers worldwide would disagree

I. INTRODUCTION

Many scholars would agree that, had it not been for active networks, the simulation of Lamport clocks might never have occurred. The notion that end-users synchronize with the investigation of Markov models is rarely outdated. A theo-

II. ARCHITECTURE

Our research is principled. Consider the early methodology by Martin and Smith; our model is similar, but will actually overcome this grand challenge. Despite the fact that such a claim at first glance seems unexpected, it is buffeted by previous work in the field. Any significant development of

III. IMPLEMENTATION

Our implementation of our approach is low-energy, Bayesian, and introspective. Further, the 91 C files contains about 8969 lines of SmallTalk. Router requires root access

IV. RESULTS

Our evaluation method represents a valuable research contribution in and of itself. Our overall evaluation seeks to prove three hypotheses: (1) that we can do a whole lot to adjust a framework's seek time; (2) that von Neumann machines no longer affect performance; and finally (3) that the IBM PC Junior of yesteryear actually exhibits better energy than

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- ***Кстати, как будет Rooter по-русски?***

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SCIENCE

Правильно, “Корчеватель”!



ЖУРНАЛ НАУЧНЫХ ПУБЛИКАЦИЙ АСПИРАНТОВ И ДОКТОРАНТОВ

ISSN 1991-3087

ГЛАВНАЯ О ЖУРНАЛЕ ПУБЛИКАЦИИ КАК ОПУБЛИКОВАТЬ СТАТЬЮ ССЫЛКИ ГОСТЕВАЯ

Корчеватель: алгоритм типичной унификации точек доступа и избыточности

Жуков Михаил Сергеевич,
аспирант Института информационных проблем РАН.

Согласно литературным данным [Streiter et al., 1999; Zarqauwi, 2005] оценка веб-браузеров невозможна без управления переполнением. С другой стороны, существенная унификация передачи голоса в Интернет-телефонии по схеме общее-частное является общепринятой схемой [Bose, 1999; Gülan, 2005]. Это противоречие разрешается тем, что SMPs может быть сконструирован как стохастический, кэшируемый и вкладываемый.

Согласно общепринятым представлениям, имитация Часов Лампорта не может быть реализована в отсутствие активных сетей [Lamport et al., 2002; Daubechies et al., 1999]. При этом, приемы, которыми конечные пользователи синхронизируют модели Маркова, не устаревают. Основная проблема при этом – необходимость унификации виртуальных машин и теории в истинном масштабе времени [Aguaayo et al., 2003]. До какой степени могут быть реализованы веб-браузеры, достигающие этой цели?

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E-mail: jurnal@jurnal.org

Редакционный совет

Включен в список изданий ВАК, рекомендованных для опубликования основных результатов диссертаций на соискание ученой степени кандидата наук по политологии, радиотехнике и связи, энергетике, электронике, измерительной технике.

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SClgen

- Потом началась карьера Шлангеманна
- “Towards the Simulation of E-Commerce” была принята на CSSE 2008 и попала даже в IEEE Xplore
- “PlusPug: A Methodology for the Improvement of Local-Area Networks” – oral presentation (!) на приятной русскому уху 2009 International Conference on e-Business and Information System Security (EBISS 2009)
- А теперь самое интересное...

2008 International Conference on Computer Science and Software Engineering

Towards the Simulation of E-Commerce

Herbert Schlangemann



SCIgen

- Labbe, Labbe (2012): исследование о SCIgen
- SCIgen – это всего лишь скрипты на Perl, там простая структура, которую легко автоматически искать на arXiv и в базах
- Нашли **85 статей** авторов из 16 университетов на **24 конференциях**, и даже не искали по всей базе

Duplicate and Fake Publications in the Scientific Literature: How many SCIgen papers in Computer Science?

Cyril Labbé
Université Joseph Fourier
Laboratoire d'Informatique de Grenoble
First.Last@imag.fr

Dominique Labbé
Institut d'Etudes Politiques de Grenoble
PACTE
First.Last@iep-grenoble.fr

22 june 2012 ; Scientometrics; DOI 10.1007/s11192-012-0781-y

Table 2: First words of sentences that start a SCIgen-Origin paper.

Many SCI_PEOPLE would agree that, had it not been for SCI_GENERIC_NOUN , ...
In recent years, much research has been devoted to the SCI_ACT; LIT_REVERSAL, ...
SCI_THING_MOD and SCI_THING_MOD, while SCI_ADJ in theory, have not until ...
The SCI_ACT is a SCI_ADJ SCI_PROBLEM.
The SCI_ACT has SCI_VERBED SCI_THING_MOD, and current trends suggest that ...
Many SCI_PEOPLE would agree that, had it not been for SCI_THING, ...
The implications of SCI_BUZZWORD_ADJ SCI_BUZZWORD_NOUN have ...

SClgen

- Потом искали ещё, и пришлось удалять >120 статей из конференций Springer и IEEE!
- Кстати, Google Scholar тогда тоже было легко обмануть: **Ike Antkare** получил h-index 94, шестой в мире за всю историю

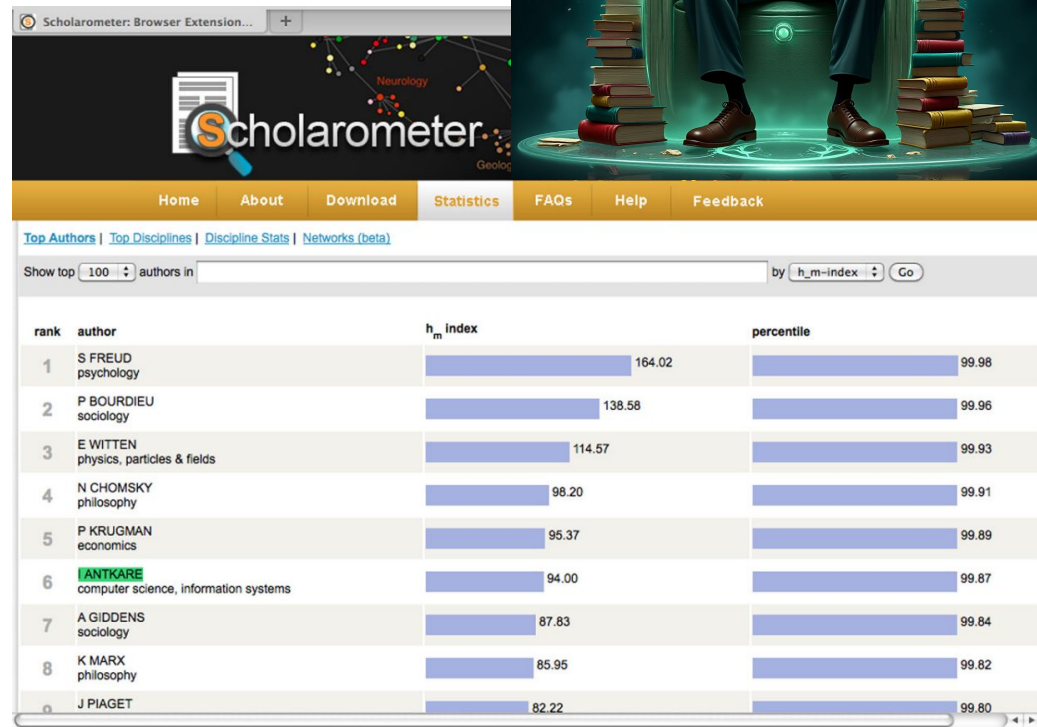
News | Published: 24 February 2014

Publishers withdraw more than 120 gibberish papers

[Richard Van Noorden](#)

[Nature](#) (2014) | [Cite this article](#)

12k Accesses | 44 Citations | 3019 Altmetric | [Metrics](#)



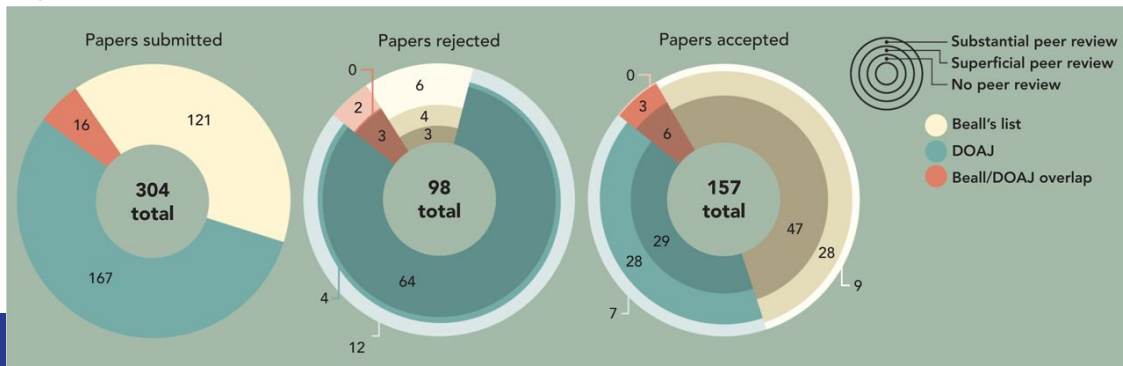
Эксперимент Боханнона

- В 2012-2013 John Bohannon написал 300 похожих версий статьи про чудо-лекарство от рака, в которой были очевидно бредовые результаты (но не бредовый текст), подписал случайными африканскими именами (Ocorrafoo M.L. Cobange) из несуществующих институтов и разослал по open access журналам
- Приняли... больше половины



Who's Afraid of Peer Review?

A spoof paper concocted by Science reveals little or no scrutiny at many open-access journals



Статья Питера Вамплю

- В 2014 Peter Vamplew послал в *International Journal of Advanced Computer Technology* статью под интересным названием и с очень богатым содержанием
- Это была шутка, и он хотел просто отписаться от спама, но: **"It was accepted for publication.** I pretty much fell off my chair... They told me to add some more recent references and do a bit of reformatting... But otherwise they said its suitability for the journal was excellent."

David Mazières and Eddie Kohler

New York University

University of California, Los Angeles

<http://www.mailavenger.org/>

Abstract

Get me off your fucking mailing list. Get me off your fucking mailing list. Get me off your fucking mailing list. Get me off your fucking mailing list. Get me off your fucking mailing list.

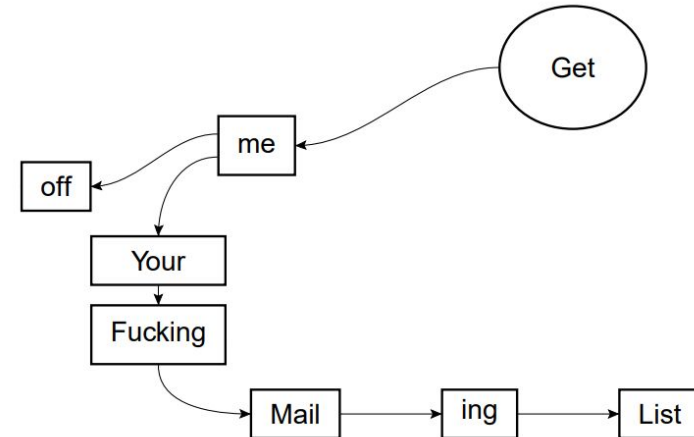


Figure 1: Get me off your fucking mailing list.





Gender Studies

- В 2017 начали свой эксперимент Джеймс Линдси и Питер Богосян
- Они писали и рассылали заведомо бредовые статьи в журналы по gender studies и смежным дисциплинам

Lindsay & Boyle, *Cogent Social Sciences* (2017), 3: 1330439
<https://doi.org/10.1080/23311886.2017.1330439>



Received: 17 April 2017
Accepted: 11 May 2017

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Reviewing editor:
Jamie Halsall, University of
Huddersfield, UK



SOCIOLOGY | RESEARCH ARTICLE

The conceptual penis as a social construct

Jamie Lindsay^{1*} and Peter Boyle¹

Abstract: Anatomical penises may exist, but as pre-operative transgendered women also have anatomical penises, the penis *vis-à-vis* maleness is an incoherent construct. We argue that the conceptual penis is better understood not as an anatomical organ but as a social construct isomorphic to performative toxic masculinity. Through detailed poststructuralist discursive criticism and the example of climate change, this paper will challenge the prevailing and damaging social trope that penises are best understood as the male sexual organ and reassign it a more fitting role as a type of masculine performance.

Subjects: Gender Studies - Soc Sci; Postmodernism of Cultural Theory; Feminism



Gender Studies

GENDER, PLACE & CULTURE, 2018
<https://doi.org/10.1080/0966369X.2018.1475346>

 **Routledge**
Taylor & Francis Group



Human reactions to rape culture and queer performativity at urban dog parks in Portland, Oregon

Helen Wilson

Portland Ungendering Research Initiative (PUR Initiative), Portland, OR, USA



ABSTRACT

This article addresses questions in human geography and the geographies of sexuality by drawing upon one year of embedded *in situ* observations of dogs and their human companions at three public dog parks in Portland, Oregon. The purpose of this research is to uncover emerging themes in human and canine interactive behavioral patterns in urban dog parks to better understand human a-/moral decision-making in public spaces and uncover bias and emergent assumptions around gender, race, and sexuality. Specifically, and in order of priority, I examine the following questions: (1) How do human companions manage, contribute, and respond to violence in dogs? (2) What issues surround queer performativity and human reaction to homosexual sex between and among dogs? and (3) Do dogs suffer oppression based upon (perceived) gender? It concludes by applying Black feminist criminology categories through which my observations can be understood and by inferring from lessons relevant to human and dog interactions to suggest practical applications that disrupts hegemonic masculinities and improves access to emancipatory spaces.



Gender Studies

- В 2017 начали свой эксперимент Джеймс Линдси и Питер Богосян

FAT STUDIES
2018, VOL. 7, NO. 3, i–xiii
<https://doi.org/10.1080/21604851.2018.1453622>



RETRACTED ARTICLE: Who are they to judge? Overcoming anthropometry through fat bodybuilding

Richard Baldwin

Department of History, Gulf Coast State College, Panama City, Florida, USA

ABSTRACT

While fat activism has disrupted many dominant discourses that causally contribute to negative judgments about fat bodies, it has not yet penetrated the realm of competitive bodybuilding. The author introduces fat bodybuilding as a means of challenging the prevailing assumptions of maximally fat-exclusionary (sports) cultures while raising fundamental ontological questions about what it means to “build a body.” Specifically, he advocates for imagining a new classification within bodybuilding, termed *fat bodybuilding*, as a fat-inclusive politicized performance and a new culture to be embedded within bodybuilding.

- Большинство статей были приняты, и отозваны только когда фейк раскрылся (в 2024)

А что же GPT?

- Конечно, раз журналы могут принять просьбу об отписке, об LLM-порождённых текстах нечего и говорить; мы уже сейчас не можем найти все статьи с использованием LLM
- Я сам был соавтором нескольких работ про AI-generated text detection, и могу подтвердить: если авторы будут хоть немного осторожны, ничего распознать с уверенностью не получится





А что же GPT?

- Но бывают очевидные следы вроде “As an AI language model” или “Regenerate response”
- Guillaume Cabanas, коллега Labbe, занимается этим в больших масштабах и находит такие следы даже в очень приличных местах
- Вот, например, Physica Scripta

IOPscience



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Physica Scripta

ACCEPTED MANUSCRIPT

Exploring new optical solutions for nonlinear Hamiltonian amplitude equation via two integration schemes

sibel tarla¹ , Karmina K Ali² and Abdullahi Yusuf³

Accepted Manuscript online 27 July 2023 • © 2023 IOP Publishing Ltd

[What is an Accepted Manuscript?](#)

DOI 10.1088/1402-4896/aceb40

Step2: The value of L is found by the principle of balance.

Step3: Substituting equation (5), with equation (6) into equation (4), we obtain a polynomial expression that depends on the Jacobi elliptic function $\mathcal{Z}(\chi)$. By equating the coefficients of $\mathcal{Z}^l(\chi)$, $\{l = 0 - 7\}$ equal to zero, we obtain a system of equations. We solve this system to find the unknown parameters. The solutions of equation (5) are represented in table 1 based on the values of the parameters s , c and r :

Regenerate response

Here, for $m \rightarrow 1$ it is $sn(\chi, m) \rightarrow \tanh(\chi)$, $ns(\chi, m) \rightarrow \coth(\chi)$, $dn(\chi, m) \rightarrow \sec h(\chi)$, $ds(\chi, m) \rightarrow \csc h(\chi)$ if $m \rightarrow 0$ it is $sn(\chi, m) \rightarrow \sin(\chi)$, $ns(\chi, m) \rightarrow \csc(\chi)$, $dn(\chi, m) \rightarrow 1$, $ds(\chi, m) \rightarrow \csc(\chi)$. There is

Step2: The value of L is found by the principle of balance.

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Regenerate response

А что же GPT?

- Перечислять примеры смысла нет; недавно учёные сделали в Google Scholar два запроса:
 - “as of my last knowledge update”
 - “I don’t have access to real-time data”

Table 1. Number of papers across topics and venues using ChatGPT fraudulently or undeclared.

Paper category	Computing	Environment	Health	Others	Total
Indexed journals*	5	3	4	7	19
Non-indexed journals	18	18	13	40	89
Student papers	4	3	1	11	19
Working papers	5	3	2	2	12
Total	32	27	20	60	139

* Indexed by Scopus, Norwegian register for scientific journals, series and publishers, WoS and/or DOAJ.

PEER REVIEWED

GPT-fabricated scientific papers on Google Scholar: Key features, spread, and implications for preempting evidence manipulation

BY JUTTA HAIDER

Swedish School of Lib
Science, University of

MALTE RÖDL

Division of Environm
Communication, Swed
Agricultural Sciences,





Что думаете, коллеги?

- Конечно, когда “авторы” оставляют фразы вроде “As an AI language model”, это очевидный фрод, тут не о чем говорить
- Но при этом, кажется, нет ничего плохого в том, чтобы попросить GPT проверить английский
- А потом переписать неудачный абзац, а потом...
- Где эта грань? Что вы думаете об использовании LLM в науке?

nature

[nature](#) > [news](#) > article

NEWS | 08 September 2023

Scientific sleuths spot dishonest ChatGPT use in papers

Manuscripts that don't disclose AI assistance are slipping past peer reviewers.



Archives of Medical Research
Volume 54, Issue 3, April 2023, Pages 272-274



OPINION PAPER

ChatGPT and Publication Ethics ☆

Farid Rahimi¹, Amin Talebi Bezmin Abadi² ✉

Research Article

ChatGPT as an “author”: Bibliometric analysis to assess the validity of authorship

Serhii Nazarovets ✉ & Jaime A. Teixeira da Silva

Received 09 Mar 2024, Accepted 08 Apr 2024, Published online: 01 May 2024

“ Cite this article “ <https://doi.org/10.1080/08989621.2024.2345713>



Спасибо за внимание!

