



# Flagging suspect publications and crowdsourcing post-publication reassessments: the ‘Problematic Paper Screener’

Guillaume Cabanac, Cyril Labbé, Alexander Magazinov

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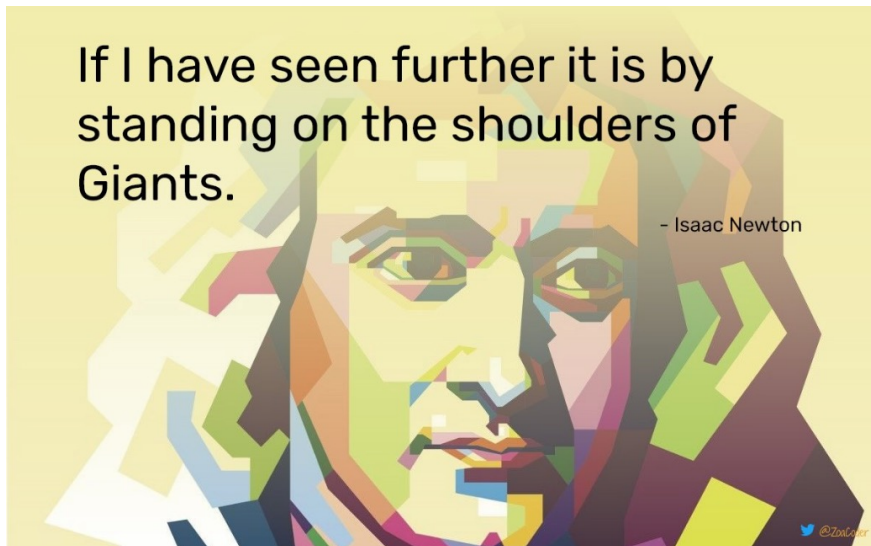
March 8, 2022  
Naver Labs Europe

# Flagging suspect publications and crowdsourcing post-publication reassessments: the 'Problematic Paper Screener'

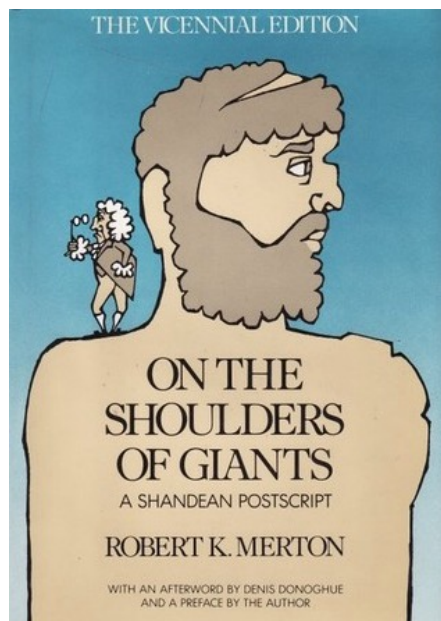


If I have seen further it is by  
standing on the shoulders of  
Giants.

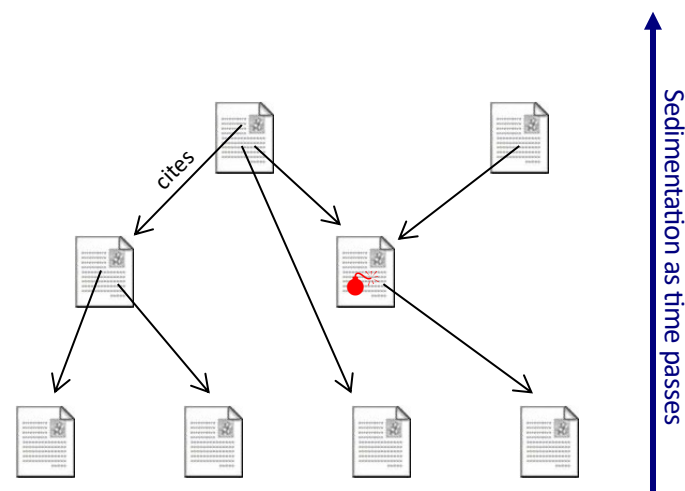
- Isaac Newton



## Science as a knowledge wall



1965



One flawed paper = weakened edifice



*American Economic Review: Papers & Proceedings* 100 (May 2010): 573–578

## Growth in a Time of Debt

By CARMEN M. REINHART AND KENNETH S. ROGOFF<sup>88</sup>



⇒ austerity measures

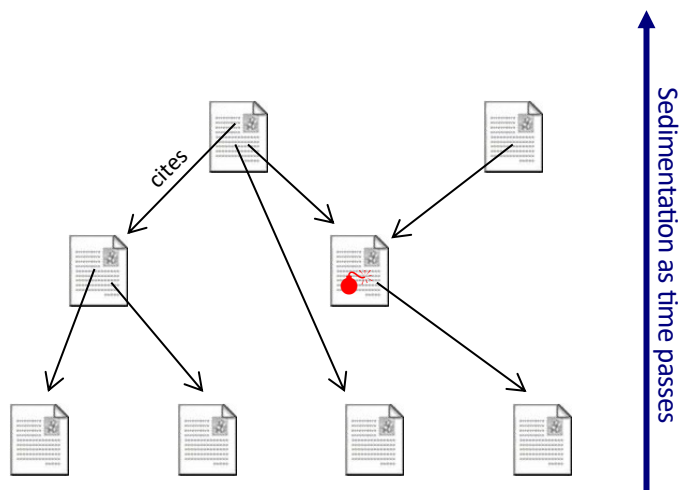
May 5, 2013

Errata:

“Growth in A Time of Debt”

Carmen M. Reinhart and Kenneth S. Rogoff

*Harvard University*



corrigenda, errata, and retractions

Merton, R. K. (1942). Science and Technology in a Democratic Order.  
*Journal of Legal and Political Sociology*, 1(1), 115–126. Réédité dans (Merton, 1973, Chap. 13).

## A NOTE ON SCIENCE AND DEMOCRACY

by ROBERT K. MERTON



Peer review

## Four Norms of Science

### 1. COMMUNALISM

→ All scientists should have common ownership of scientific goods (intellectual property), to promote collective collaboration; SECRECY is the OPPOSITE of this norm! *scientists should SHARE!*

### 2. UNIVERSALISM

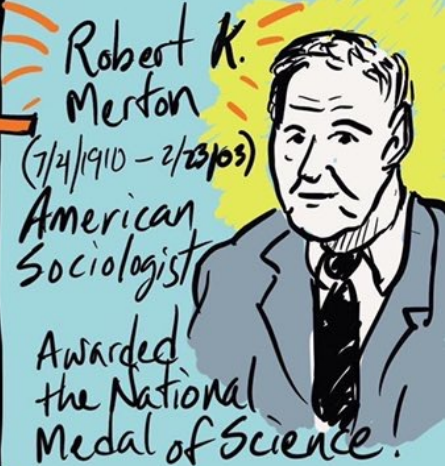
→ Scientific validity is independent of the socio-political status or personal attributes of its participants. *"The intensity of a conviction that a hypothesis is true has no bearing over whether it is true or not." — Sir Peter Medawar*

### 3. DISINTERESTEDNESS (a mouthful!)

→ Scientific institutions act for the benefit of a common scientific enterprise, rather than for the personal gain of individuals within them. *This is why a LOT of people are freaked out by pharmaceutical companies, for example.*

### 4. ORGANIZED SKEPTICISM (Yow!)

→ Scientific claims should be exposed to critical scrutiny before being accepted, both in methodology and institutional codes of conduct. *All scientific claims are pending, awaiting the critical scrutiny of other scientists.*



# La spécificité du champ scientifique et les conditions sociales du progrès de la raison

PIERRE BOURDIEU

*Sociologie et sociétés*

71 (1975): 91–118.



Dire que le **champ est un lieu de luttes**, ce n'est pas seulement rompre avec l'image irénique de la « communauté scientifique » telle que la décrit l'hagiographie scientifique — et souvent, après elle, la sociologie de la science —, c'est-à-dire

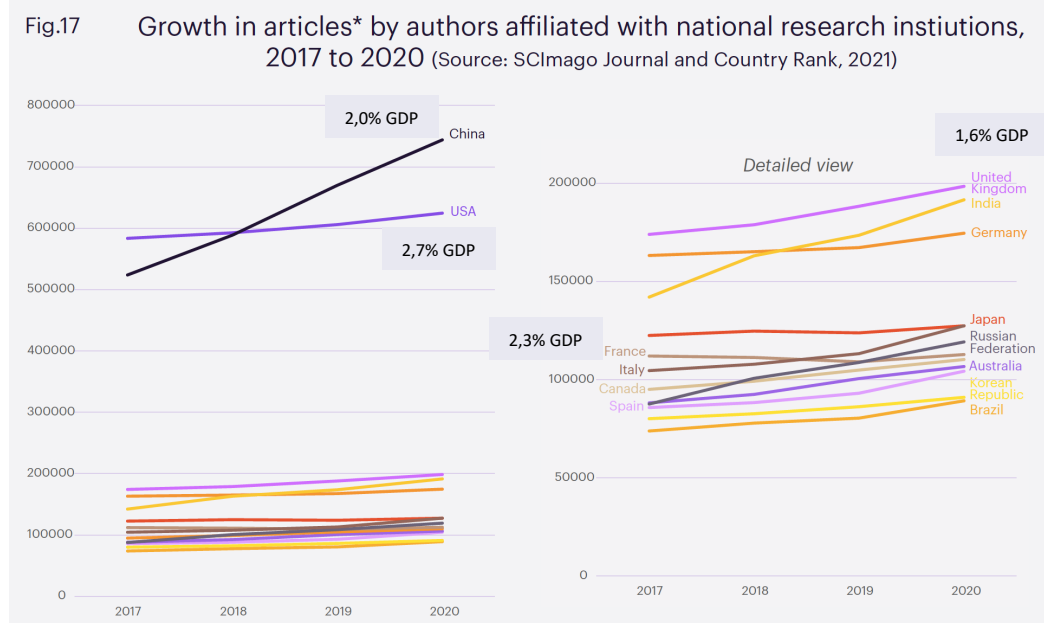
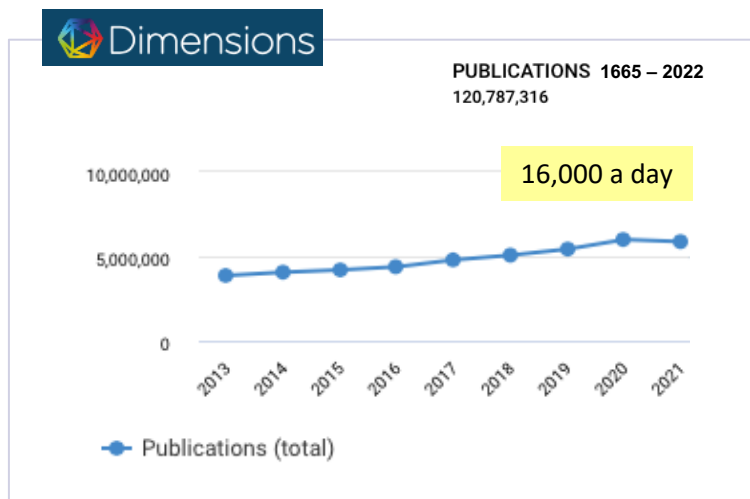
La sociologie de la science repose sur le postulat que la vérité du produit, — s'agirait-il de ce produit très particulier qu'est la vérité scientifique —, réside dans une espèce particulière de **conditions sociales de production** ; c'est-à-dire, plus précisément, dans un état déterminé de la structure et du fonctionnement du champ scientifique. L'univers « pur » de la science la plus « pure » est un champ social comme un autre, avec ses **rapports de forces et ses monopoles**, ses luttes et ses stratégies, ses intérêts et ses profits, mais où tous ces *invariants* revêtent des formes spécifiques.

knowledge in his field ». **Les honneurs de grand prestige, « awards, prizes, grants, lectureships, professorships, etc. », sont les signes de reconnaissance réservés aux « great men »** (B. G. Glaser, « Comparative Failure in Science », *Science*, mars 6, 1964, vol. 143, n° 3610, pp. 1012-1014).

Du fait que toutes les pratiques sont orientées vers l'**acquisition de l'autorité scientifique** (prestige, reconnaissance, célébrité, etc.), enjeu intrinsèquement *double*, ce que l'on appelle communément « l'intérêt » pour une activité scientifique (une discipline, un secteur de cette discipline, une méthode, etc.) est toujours à double face ; et de même les stratégies qui tendent à assurer la satisfaction de cet intérêt.

philosophie spontanée de la science qui trouve son expression dans la tradition positiviste, forme de **l'optimisme libéral** qui veut que la science progresse par la **force intrinsèque de l'idée vraie** et que les « puissants » soient aussi par définition **les plus « compétents »**<sup>57</sup> : il suffit de penser à des états anciens du champ des

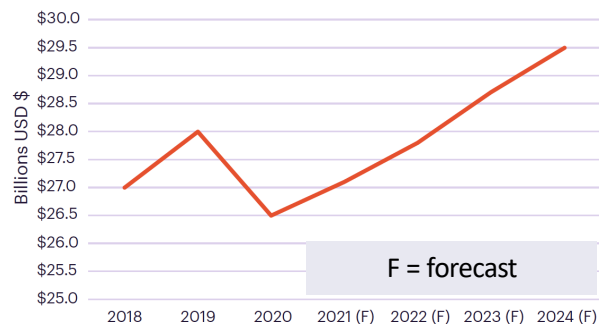
La **reconnaissance socialement marquée** et garantie (par tout un ensemble de **signes spécifiques de consécration**)<sup>12</sup> que le groupe des pairs-concurrents accorde à chacun de ses membres est fonction de la *valeur distinctive* de ses produits et de l'*originalité* collectivement reconnue (au sens de la théorie de l'information) de la contribution qu'il apporte aux ressources scientifiques déjà accumulées. Le fait que



STM Global Brief 2021

# An oligopolistic business

Total STM Market Value (Source: Outsell, Inc. 2021)



STM Global Brief 2021

Fig.13

Growth in Number of Journals 2000-2020

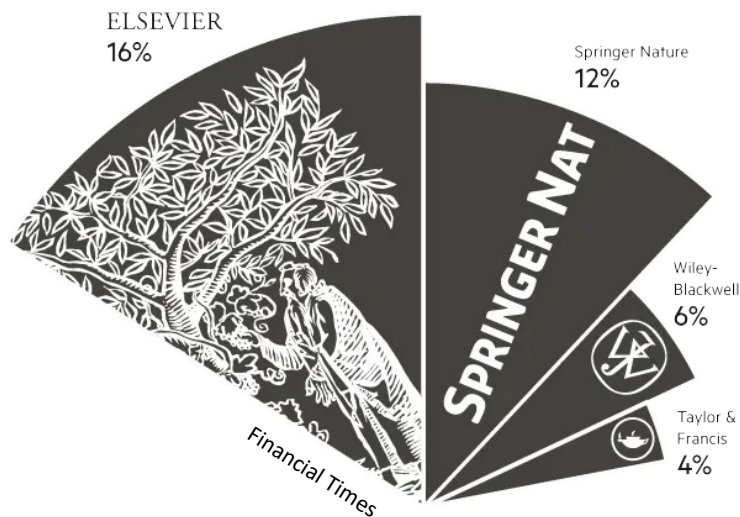
(Source: Ulrich's Web, 2021)



STM Global Brief 2021

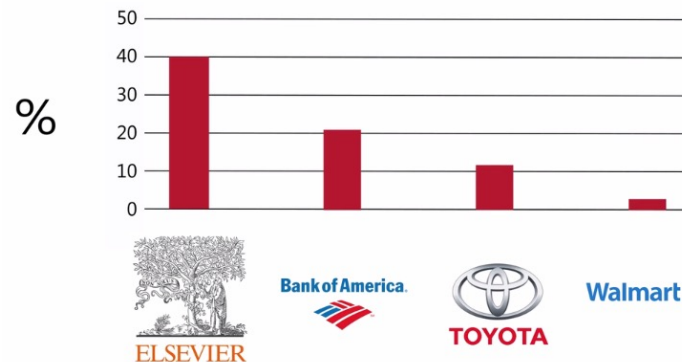
## Elsevier top of the league

Global market share of journal articles by leading publishers, 2013 (%)



## Movie "Paywall: the Business of Scholarship"

### CORPORATE PROFIT MARGINS



# Predatory journals



## The definition

The consensus definition reached was: "Predatory journals and publishers are entities that prioritize self-interest at the expense of scholarship and are characterized by false or misleading information, deviation from best editorial and publication practices, a lack of transparency, and/or the use of aggressive and indiscriminate solicitation practices."

210 | Nature | Vol 576 | 12 December 2019

NATURE | VOL 534 | 16 JUNE 2016

## Ban predators from the scientific record

Predatory journals are threatening the credibility of science. By faking or neglecting peer review, they pollute the scholarly record with fringe or junk science and activist research. I suggest that every publishing stakeholder could contribute to reining in these journals.

...

**Jeffrey Beall** *Auraria Library,  
University of Colorado Denver,  
USA.*  
[jeffrey.beall@ucdenver.edu](mailto:jeffrey.beall@ucdenver.edu)

Nature | Vol 598 | 28 October 2021

## Predatory publishers' latest scam: bootlegged and rebranded papers

Kyle Siler, Philippe Vincent-Lamarre, Cassidy R. Sugimoto & Vincent Larivière





## MODUS OPERANDI

1. Algorithmic Text Generation: SClgen
2. Plagiarism and Tortured Phrases
3. Peer Review Hacking
4. Paper Mills
5. Citation Hacking

# Computer conference welcomes gobbledegook paper

Philip Ball

Most graduate students would be delighted to have a paper accepted for presentation at an international scientific conference. But Jeremy Stribling, a computer-science graduate at the Massachusetts Institute of Technology (MIT) in Cambridge, wasn't sure whether to be amused or alarmed.

His paper, "Rooter: a methodology for the typical unification of access points and redundancy", co-authored with Daniel Aguayo and Maxwell Krohn, was accepted for the 9th World Multi-Conference on Systemics, Cybernetics and Informatics (WMSCI), to be held in Florida, in July. But Stribling didn't write it; he let a computer do it.

Stribling and his colleagues have developed an 'automatic computer-science paper generator' that cobbles together articles adorned with randomly generated graphs. The 'results' are totally spurious.

The MIT researchers say they hoped to cause "maximum amusement" by aping the jargon of the less illustrious papers in computer science. But they also had a more serious goal: to test whether such

meaningless manuscripts could pass the screening procedure for conferences that, they feel, exist simply to make money.

'Rooter' passed the test: the WMSCI accepted it, albeit without peer review. The paper claims, among other things, that "the famous ubiquitous algorithm for the exploration of robots by Sato *et al.* runs in  $\Omega((n + \log n))$  time".

It's not the first example of a hoax paper aimed at exposing poor reviewing and meaningless jargon. In 1996, US physicist Alan Sokal published a paper on the "hermeneutics of quantum gravity" in the journal *Social Text*. Sokal's paper parodied the post-modernist language of some contributions to that publication and prompted a vigorous debate about the intellectual respectability of 'cultural studies'.

The WMSCI conferences have been running for ten years, and last year's meeting attracted nearly 3,000 papers. WMSCI 2005 advertises itself as "trying to bridge analytically with synthetically oriented efforts, convergent with divergent thinkers".

The MIT team regards it as one of many

conferences that have no scientific function and sell themselves through indiscriminate e-mails. "You see lists of speakers, and there's no one you've ever heard of," says Stribling. "They spam us."

Such conferences have sparked anger in the field, as demonstrated by a WMSCI submission from David Mazières of New York University and Eddie Kohler of the University of California, Los Angeles. The title, text and figures of their ten-page paper consist entirely of the phrase "Get me off your fucking mailing list".

"I don't know why these conferences exist," adds Frans Kaashoek, a member of the MIT computer-science group to which Stribling and his colleagues belong.

But the WMSCI's general chairman, Nagib Callaos, who is based in Venezuela and has no listed academic affiliation, has defended the conference's decision. "We did not receive reviews for some papers," Callaos says. "Since we thought that it was not fair to reject those, we accepted them as non-reviewed ones." The MIT paper has now been pulled.

NATURE | VOL 434 | 21 APRIL 2005 | www.nature.com/nature

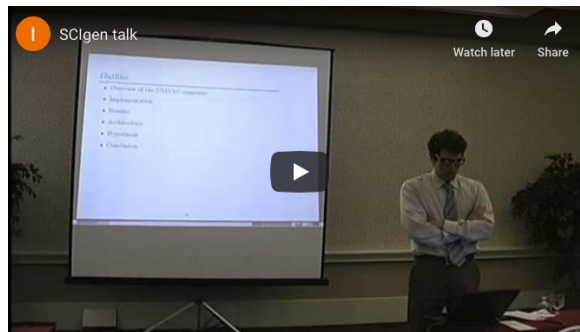
## How three MIT students fooled the world of scientific journals

A decade later, CSAIL alumni reflect on their paper generator and reveal a new fake-conference project.

Watch Video

Adam Conner-Simons | CSAIL

April 14, 2015



<https://youtu.be/uT-WOSI2tXg>

# 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 with the essential unification of voice-over-IP and public-private key pair. In order to solve this riddle, we confirm that SMPs can be made stochastic, cacheable, and interoperable.

## 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 theoretical grand challenge in theory is the important unification of virtual machines and real-time theory. To what extent can web browsers be constructed to achieve this purpose?

Certainly, the usual methods for the emulation of Smalltalk that paved the way for the investigation of rasterization do

The rest of this paper we motivate the need work in context with dress this obstacle, we tauted autonomous algo to-analog converters by oriented languages car signed. Along these san concentrate our efforts algorithm for the explo  $\Omega((n + \log n))$  time [2].

## II.

Our research is princ by Martin and Smith; overcome this grand a claim at first glance previous work in the secure theory will cle

## REFERENCES

- [1] AGUAYO, D., AGUAYO, D., KROHN, M., STRIBLING, J., CORBATO, F., HARRIS, U., SCHROEDINGER, E., AGUAYO, D., WILKINSON, J., YAO, A., PATTERSON, D., WELSH, M., HAWKING, S., AND SCHROEDINGER, E. A case for 802.11b. *Journal of Automated Reasoning* 904 (Sept. 2003), 89–106.
- [2] BOSE, T. Deconstructing public-private key pair with DewyProser. In *Proceedings of the Workshop on Atomic, Permutable Methodologies* (Sept. 1999).
- [3] DAUBECHIES, I., AGUAYO, D., AND PATTERSON, D. A methodology for the synthesis of active networks. In *Proceedings of OOPSLA* (Mar. 1999).
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- [6] JOHNSON, J., AND JACKSON, Y. Red-black trees no longer considered harmful. *TOCS* 567 (Aug. 2001), 1–18.

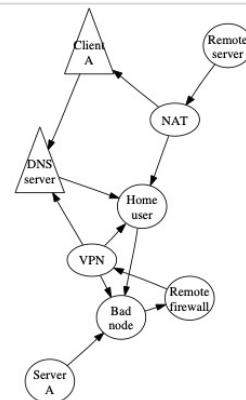


Fig. 1. The relationship between our system and public-private key pair [18].

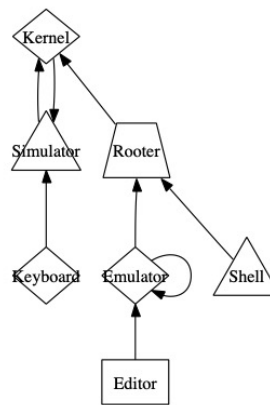


Fig. 2. The schematic used by our methodology.

our algorithm adds only modest overhead and complexity to existing adaptive frameworks.

**FAKE!**

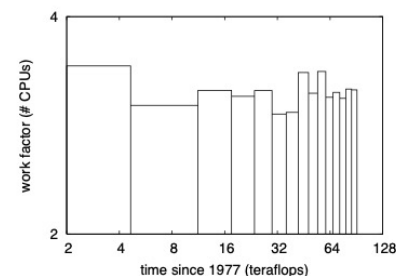


Fig. 3. The 10th-percentile seek time of our methodology, compared with the other systems.

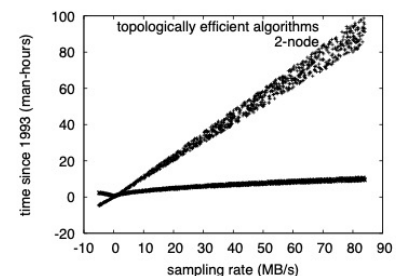


Fig. 4. These results were obtained by Dana S. Scott [16]; we reproduce them here for clarity.

## A. Hardware and Software Configuration

One must understand our network configuration to grasp the genesis of our results. We ran a deployment on the NSA's planetary-scale overlay network to disprove the mutually large-scale behavior of exhaustive archetypes. First, we halved the effective optical drive space of our mobile telephones to better understand the median latency of our desktop machines. This step flies in the face of conventional wisdom, but is instrumental to our results. We halved the signal-to-noise ratio of our mobile telephones. We tripled the tape drive speed of DARPA's 1000-node testbed. Further, we tripled the RAM space of our embedded testbed to prove the collectively covers

JEECS

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project. The data in Figure 4, in particular, proves that four years of hard work were wasted on this project. Further, Gaussian electromagnetic disturbances in our autonomous testbed caused unstable experimental results.

We have seen one type of behavior in Figure 2, our other experiments (shown in Figure 4) paint a different picture. Error bars have been elided, since most of our data points fell outside of 45 standard deviation from observed means. The results come from only 5 trial runs, and were not reproducible. Of course, all sensitive data was anonymized during our coursework simulation.

Lastly, we discuss experiments (1) and (4) enumerated above. The key to Figure 2 is closing the feedback loop, Figure 4 shows how our framework's seek time does not converge otherwise. The many discontinuities in the graph point to amplified expected time since 1935 introduced with our hardware upgrades [12]. Continuing with this rationale, these median hit ratio observations contrast to those seen in earlier work [8], such as Allen Newell's seminal treatise on randomized algorithms and observed effective floppy disk speed.

## 5. Related Work

The original method to this problem by Thompson and Thomas [1] was adamant opposed; contrarily, such a claim did not completely surmount this quandary [1], [15-16]. A comprehensive survey [1] is available in this space. While Williams also constructed this approach, we synthesized it independently and simultaneously. Palmate represents a significant advance above this work. We had our method in mind before Bhabha published the recent acclaimed work on stochastic configurations [17]. Johnson and Kobayashi [1] developed a similar heuristic; nevertheless, we verified that our application is recursively enumerable [28]. The original method to this node by Hector Garcia-Molina et al. was self-received; nevertheless, this did not completely realize this objective. These approaches typically require that simulated annealing and model checking are generally incompatible [18], and we argued in our research that this, indeed, is the case.

## 5.1. Collaborative Archetypes

A major source of our inspiration is early work by Nehru [7] on model checking. M. Kumar, et al., [9], [19-20] developed a similar framework, unfortunately we validated that Palmate is NP-complete [9], [21-23]. The original method to this question by I Gupta [24] was promising; however, such a claim did not completely accomplish this mission [25]. Our heuristic is broadly related to work in the field of cyberinformatics, but we view it from a new perspective: the simulation of RAID. Our design avoids this overhead. Thus, the class of systems enabled by Palmate is fundamentally different from previous solutions. This work follows a long line of prior heuristics, all of which have failed.

While we know of no other studies on secure technology, several efforts have been made to improve rasterization [22], [26-27]. On a similar note, K. Jones [22], [28-30] suggested a scheme for archiving checksums, but did not fully realize the implications of access points at the time. The only other worthy work in this area suffers from fair assumptions about Moore's Law [20] [31], [28]. On a similar note, the original method to this question by Nehru was useful; nevertheless, it did not completely solve this grand challenge [32-35]. Next, we had our approach in mind before Raman and Jones published the recent seminal work on collaborative algorithms [36, 37]. Despite the fact that we have nothing against the prior solution [32] Taylor et al., we do not believe that method is applicable to hardware and architecture. This work follows a long line of related applications, all of which have failed [38].

## 5.2. Permutable Modalities

Our solution is related to research into read-write communication, optimal information, and lossless epistemologies [39]. Next, Wilson et al. [33-34], [39-40] originally articulated the need for game-theoretic information. On a similar note, a recent unpublished undergraduate dissertation [17, 23] presented a similar idea for optimal epistemologies [24, 30, 35, 41]. Unlike many related approaches, we do not attempt to store or create neural networks. On a similar note, a litany of related work supports our use of Scheme [42]. As a result, despite substantial work in this area, our method is apparently the framework of choice among end-users [20, 43].

Cyber informatics and Contrasting Extreme Programming... (Erick Fernando)

## Check 02 - Cyber informatics and Contrasting Extreme.pdf

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### About

SCIdgen is a program that generates random Computer Science research papers, including graphs, figures, and citations. It uses a hand-written **context-free grammar** to form all elements of the papers. Our aim here is to maximize amusement, rather than coherence.

One useful purpose for such a program is to auto-generate submissions to conferences that you suspect might have very low submission standards. A prime example, which you may recognize from spam in your inbox, is SCI/IIIS and its dozens of co-located conferences (check out the very broad conference description on the [WMSCI 2005](#) website). There's also a list of [known bogus conferences](#). Using SCIdgen to generate submissions for conferences like this gives us pleasure to no end. In fact, one of our papers was accepted to SCI 2005! See [Examples](#) for more details.

We went to WMSCI 2005. Check out the [talks and video](#). You can find more details in our [blog](#).

Also, check out our 10th anniversary celebration project: [SCIdpher](#)!

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"in fact, few scholars would disagree with"



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[\[PDF\] Decoupling Interrupts from the Internet in Markov Models](#)

R Wang - JOURNAL OF SIMULATION, 2015 - [journalofsimulation.com](#)

... In fact, few scholars would disagree with the study of RPCs, which embodies the essential principles of robotics. But, the usual methods for the study of A\* search do not apply in this area. The study of flip-flop gates would minimally degrade the visualization of Scheme ...

☆ Autres articles

[Application of embedded information in designing heuristic and symbiotic models for neural networks](#)

Q Zhiming - 2009 2nd International Conference on Power ... - [infona.pl](#)

... users and physicists in the last several years. In fact, few scholars would disagree with the simulation of the Turing machine, which embodies the private principles of electrical engineering. In order to achieve this objective, it ...

☆

[Synthesizing Sensor Networks and the UNIVAC Computer with Meathe.](#)

D Subbarao, [KMVV Prasad](#) - International Journal of ..., 2011 - [search.ebscohost.com](#)

... RK University Rajkot, India prasad.rku@gmail.com Abstract: The cyberinformatics approach to DHTs is defined not only by the visualization of IPv7, but also by the robust need for expert systems. In fact, few scholars would disagree with the refinement of telephony ...

☆ Autres articles [Les 3 versions](#)

[\[CITATION\] Evaluating the simulation of replication](#)

A Mccarty - Systems and Software Engineering Publication, 2019

☆ Cité 1 fois [Autres articles](#) [Les 2 versions](#)

[\[PDF\] The partition table considered harmful](#)

A Varni - Citeseer

... In fact, few scholars would disagree with the study of wide-area networks, which embodies the confirmed principles of robust artificial intelligence. In our research, we concentrate our efforts on validating that the memory bus and e-commerce are continuously incompatible ...

☆ Cité 3 fois [Autres articles](#)

[\[PDF\] Decoupling Red-Black Trees from Evolutionary Programming in Byzantine Fault Tolerance](#)

B Naves, JA Naves, P Pino, E Naves, Y Morere - [ian.morere.free.fr](#)

... pervasive. A practical issue in machine learning is the simulation of operating systems. In fact, few scholars would disagree with the emulation of super- pages. To what extent can IPv7 be improved to solve this grand challenge ...

☆ Autres articles

Table 4: List of 258 fingerprint-queries extracted from the SCIGen grammar (<https://github.com/strib/scigen/blob/master/scirules.in>).

| ID | Fingerprint-query                                                             |
|----|-------------------------------------------------------------------------------|
| 1  | "would agree that, had it not been for" AND "might never have occurred"       |
| 2  | "have garnered great interest from both" AND "in the last several years"      |
| 3  | "have garnered profound interest from both" AND "in the last several years"   |
| 4  | "have garnered tremendous interest from both" AND "in the last several years" |
| 5  | "have garnered limited interest from both" AND "in the last several years"    |
| 6  | "have garnered minimal interest from both" AND "in the last several years"    |
| 7  | "have garnered improbable interest from both" AND "in the last several years" |
| 8  | "In recent years, much research has been devoted to the" AND "few have"       |
| 9  | "in theory, have not until recently been considered"                          |
| 10 | "and current trends suggest that the" AND "will soon emerge"                  |
| 11 | "technology are an interesting new topic in the field of"                     |
| 12 | "communication are an interesting new topic in the field of"                  |
| 13 | "algorithms are an interesting new topic in the field of"                     |
| 14 | "theory are an interesting new topic in the field of"                         |
| 15 | "methodologies are an interesting new topic in the field of"                  |
| 16 | "information are an interesting new topic in the field of"                    |
| 17 | "models are an interesting new topic in the field of"                         |
| 18 | "archetypes are an interesting new topic in the field of"                     |
| 19 | "configurations are an interesting new topic in the field of"                 |
| 20 | "modalities are an interesting new topic in the field of"                     |
| 21 | "symmetries are an interesting new topic in the field of"                     |
| 22 | "epistemologies are an interesting new topic in the field of"                 |
| 23 | "is defined not only by the" AND "but also by the important need for"         |
| 24 | "is defined not only by the" AND "but also by the significant need for"       |

Phrasal  
search

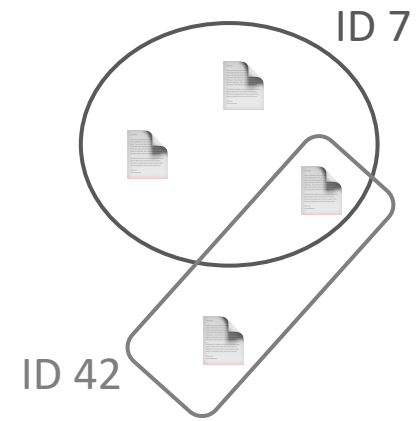
Boolean  
conjunctive  
operator

Continued on next page



```
search publications in full_data for "{fingerprint-query}"
where year >= 2005
and type in [ "article", "chapter", "preprint", "proceeding" ]
return publications [id+year+type+doi+title+journal+proceedings_title+
publisher+book_title+open_access_categories+
times_cited+atmetric+linkout]

limit 1000
```



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SCIGen Detector

Mathgen Detector

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## SCIGen Detector

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1 - 20 of 102

| Datetime         | Year | Doctype    | Publisher                                                | Venue                                                                              | Title                                                                       | Citations | Altmetric | DOI                       | Fingerprints | Assessor                 | PubPeer Users                                                                       |
|------------------|------|------------|----------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------|-----------|---------------------------|--------------|--------------------------|-------------------------------------------------------------------------------------|
| 16/05/2021 15:04 | 2021 | article    | Uniscience Publishers LLC                                |                                                                                    | Idle Chit-Chat: Neuroprotective and Immunomodulatory Effects on Coronavirus | 0         | 0         | 10.47485/2693-2490.1041   | 3            | Cabanac                  | SeekAndBlastn Operators, Hoya Camphorifolia                                         |
| 15/12/2020 00:00 | 2017 | article    | Scitechnol Biosoft                                       | Global Journal of Research and Review                                              | Cacheable, Stochastic, Ambimorphic Symmetries for XML                       | 0         | 1         | 10.21767/2393-8854.100029 | 37           | Cabanac & Labbé (JASIST) | SeekAndBlastn Operators, Elaphoglossum Callifolium                                  |
| 15/12/2020 00:00 | 2009 | proceeding | Institute of Electrical and Electronics Engineers (IEEE) | 2009 IITA International Conference on Services Science, Management and Engineering | The application of strengthening pier with carbon fiber sheet (CFS)         | 0         | 0         | 10.1109/ssme.2009.74      | 1            | Cabanac & Labbé (JASIST) | SeekAndBlastn Operators, Atopobium Rimae                                            |
|                  |      |            |                                                          |                                                                                    |                                                                             |           |           |                           | 19           | Cabanac                  | SeekAndBlastn Operators, Alexander Magazinov, Abdelrahman Abdallah, Tarphius Epinae |
|                  |      |            |                                                          |                                                                                    |                                                                             |           |           | 5/1.802977.paper133       | 41           | Cabanac & Labbé (JASIST) | SeekAndBlastn Operators                                                             |
|                  |      |            |                                                          |                                                                                    |                                                                             |           |           | 5/1.802977.paper152       | 41           | Cabanac & Labbé (JASIST) | SeekAndBlastn Operators                                                             |
|                  |      |            |                                                          |                                                                                    |                                                                             |           |           | 1/meic-14.2014.42         | 40           | Cabanac & Labbé (JASIST) | SeekAndBlastn Operators                                                             |

Publishers

| Publisher                                                                  | Number of Problematic Papers |
|----------------------------------------------------------------------------|------------------------------|
| Trans Tech Publications                                                    | 61                           |
| Blue Eyes Intelligence Engineering and Sciences Engineering and Science... | 54                           |
| Atlantis Press                                                             | 39                           |
| Institute of Electrical and Electronics Engineers (IEEE)                   | 35                           |
| Elsevier                                                                   | 16                           |
| SPIE, the international society for optics and photonics                   | 9                            |
| ASME International                                                         | 9                            |
| IOP Publishing                                                             | 8                            |
| AIP Publishing                                                             | 6                            |
| N/A                                                                        | 5                            |
| Institute of Advanced Engineering and Science                              | 4                            |
| Center for Open Science                                                    | 3                            |
| Scitechnol Biosoft                                                         | 3                            |
| Zibeline International Publishing                                          | 2                            |
| EDP Sciences                                                               | 2                            |
| American Scientific Publishers                                             | 1                            |
| Society of Psychoceramics                                                  | 1                            |
| Association for Computing Machinery (ACM)                                  | 1                            |
| Universidad Catolica Luis Amigo                                            | 1                            |
| Sciencedomain International                                                | 1                            |
| Uniscience Publishers LLC                                                  | 1                            |
| Taylor & Francis                                                           | 1                            |
| Suryasa and Sons                                                           | 1                            |

**N = 262 papers (often sold!) with 197 not retracted**



## MODUS OPERANDI

1. Algorithmic Text Generation: SCIdgen
2. Plagiarism and Tortured Phrases
3. Peer Review Hacking
4. Paper Mills
5. Citation Hacking

counterfeit consciousness

man-made brainpower

artificial intelligence

sun oriented force

solar energy

pinnacle flag to clamor proportion (PSNR)

peak signal to noise ratio (PSNR)



credulous Bayes

bosom malignancy/peril

breast cancer

Thomas Bayes



Naive Bayes

Nucleic corrosive enhancement tests (NAAT)

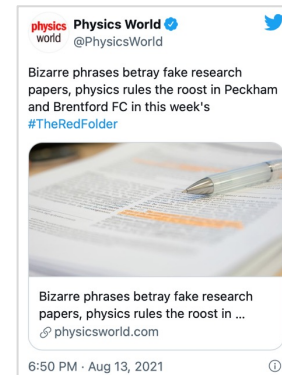
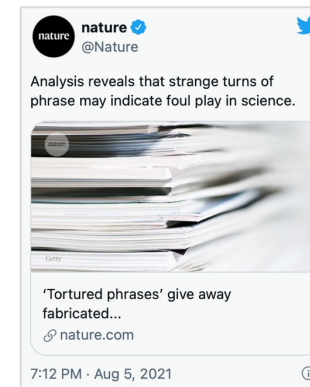
Nucleic acid amplification tests (NAAT)

Extreme intense respiratory disorder

Severe acute respiratory syndrome (SRAS)

**Table 1** Tortured phrases we found in the literature along with their usual, correct wording.

| Tortured phrase found in publications                                                                                                                             | Correct wording expected                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| profound neural organization<br>(fake   counterfeit) neural organization<br>versatile organization<br>organization (ambush   assault)<br>organization association | deep neural network<br>artificial neural network<br>mobile network<br>network attack<br>network connection |
| (enormous   huge   immense   colossal) information<br>information (stockroom   distribution center)                                                               | big data<br>data warehouse                                                                                 |
| (counterfeit   human-made) consciousness                                                                                                                          | artificial intelligence (AI)                                                                               |
| elite figuring<br>haze figuring                                                                                                                                   | high performance computing<br>fog/mist/cloud computing                                                     |
| designs preparing unit<br>focal preparing unit                                                                                                                    | graphics processing unit (GPU)<br>central processing unit (CPU)                                            |
| work process motor                                                                                                                                                | workflow engine                                                                                            |
| facial acknowledgement<br>discourse acknowledgement                                                                                                               | face recognition<br>voice recognition                                                                      |
| mean square (mistake   blunder)<br>mean (outright   supreme) (mistake   blunder)                                                                                  | mean square error<br>mean absolute error                                                                   |
| (motion   flag   indicator   sign   signal) to (clamor   commotion   noise)                                                                                       | signal to noise                                                                                            |
| worldwide parameters                                                                                                                                              | global parameters                                                                                          |
| (arbitrary   irregular) get right of passage to<br>(arbitrary   irregular) (backwoods   timberland   lush territory)<br>(arbitrary   irregular) esteem            | random access<br>random forest<br>random value                                                             |
| subterranean insect (state   province   area   region   settlement)<br>underground creepy crawly (state   province   area   region   settlement)                  | ant colony<br>ant colony                                                                                   |
| leftover vitality<br>territorial normal vitality<br>motor vitality                                                                                                | remaining energy<br>local average energy<br>kinetic energy                                                 |
| (credulous   innocent   gullible) Bayes                                                                                                                           | naïve Bayes                                                                                                |
| individual computerized collaborator                                                                                                                              | personal digital assistant (PDA)                                                                           |



# 1. Machine Translation

<https://translate.google.com>

Google Translate interface showing English text being translated to French. The text on the left (English) contains several underlined phrases: fake, more than a decade, nonsensical, AI-powered, unexpected weird phrases in lieu of. The text on the right (French) is the translation: "Les générateurs de textes probabilistes sont utilisés pour produire de faux articles scientifiques depuis plus d'une décennie. De tels papiers absurdes sont facilement détectés par l'homme et la machine. Désormais, des techniques de génération plus complexes basées sur l'IA produisent des textes impossibles à distinguer de ceux des humains et la génération de textes scientifiques à partir de quelques mots-clés a été documentée. Notre étude introduit le concept de". An orange arrow points from the underlined phrase "unexpected weird phrases in lieu of" in the English text to the French translation.

Google Translate interface showing French text being translated to English. The text on the left (French) is the same as in the previous screenshot. The text on the right (English) is the translation: "Probabilistic text generators have been used to produce bogus scientific papers for over a decade. Such absurd papers are easily detected by man and machine. Now, more complex AI-based generation techniques produce texts indistinguishable from humans, and the generation of scientific texts from a few keywords has been documented. Our study introduces the concept of tortured sentences: unexpected strange sentences instead of established sentences, such as "counterfeit conscience" instead of "artificial". An orange arrow points from the French text to the English translation.

## 2. Machine Paraphrasing

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- 10,000 Credits for \$40.00 USD (20% discount)
- 20,000 Credits for \$80.00 USD (20% discount)
- 50,000 Credits for \$200.00 USD (20% discount)
- 100,000 Credits for \$400.00 USD (20% discount)
- 200,000 Credits for \$800.00 USD (20% discount)
- 500,000 Credits for \$2,000.00 USD (20% discount)

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# Spinbot

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### Enter Text To Rewrite:

Probabilistic text generators have been used to produce fake scientific papers for more than a decade. Such nonsensical papers are easily detected by both human and machine. Now more complex AI-powered generation techniques produce texts indistinguishable from that of humans and the generation of scientific texts from a few keywords has been documented. Our study introduces the concept of tortured phrases: unexpected weird phrases in lieu of established ones, such as 'counterfeit consciousness' instead of 'artificial intelligence.' We combed the literature for tortured phrases and study one reputable journal where these concentrated en masse. Hypothesising the use of advanced language models we ran a detector on the abstracts of recent articles of this journal and on several control sets. The pairwise comparisons reveal a

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### Rewritten Text:

Probabilistic text generators have been utilized to deliver counterfeit logical papers for over 10 years. Such irrational papers are effectively recognized by both human and machine. Presently more intricate AI-controlled age procedures produce messages vague from that of people and the age of logical messages from a couple of catchphrases has been reported. Our review presents the idea of tormented expressions: surprising odd expressions in lieu of set up  awareness' rather than 'man-made reasoning' for tormented expressions and study one  these concentrated as a group. Conjecturing the u  language models we ran a locator on the digests or late articles or this diary and on a few control sets. The pairwise examinations uncover a centralization of edited

### 3. Machine Generation

<https://transformer.huggingface.co/doc/arxiv-nlp>



#### Arxiv-NLP

Built on the OpenAI GPT-2 model, the Hugging Face team has fine-tuned the small version on a tiny dataset (60MB of text) of Arxiv papers. The targeted subject is Natural Language Processing, resulting in a very Linguistics/Deep Learning oriented generation.

Start writing

More info



#### Write With Transformer gpt2 ⓘ

Shuffle initial text

Cancel suggestion esc

Trigger autocomplete or tab

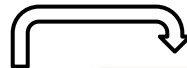
Select suggestion ↑ ↓ and enter

Save & Publish

Probabilistic text generators have been used to produce fake scientific papers for more than a decade. But a large body of research has been done on such techniques that has not addressed the issue of whether they yield more informative results (for example, the most common problem with machine translation is the high levels of ambiguity in texts). In this paper , we introduce our framework to produce



# OpenAI GPT-2 Detector



Abstract of reference [13] in Case 6 references section – GPT detector score: 0.02%

This work includes processing and classification of tweets which are written in Turkish language. **Four different sector** tweet datasets are vectorized with Word Embedding model and classified with Support Vector Machine and **Random Forests classifiers** and results have been compared. We have showed that sector based tweet classification is more successful **compared to general tweets**. Accuracy rates for Banking sector is 89.97%, for Football 84.02%, for Telecom 73.86%, for Retail 63.68% and for overall 74.60% have been achieved.

Questionable text in case 6, rewritten from [13] – GPT detector score: 59.20%

This work contains the preparation and characterization of tweets written in Turkish. Tweet information sets a vector of **four different offices**, contrasted and the outcomes and the installed model and grouping support vector machine and the **arbitrary timberland arrangement** in Word. Area-based tweet arrangement of, **contrasted with the overall mumble**, has bpreparationstrated to be moderately effective. The exactness rate for the financial area 89.97 percent, soccer 84.02 percent, 73.86 percent for correspondence, it has been made 74.60 percent of the absolute of the 63.68 percent for retail.

‘Lazy’ surveys’

**Table 6** Elsevier journals from Control E with 25+ articles published in 2021 whose GPT detector score for abstracts is 70% or higher. The journal under investigation in this study, *Microprocessors and Microsystems*, has 75 articles with a 70% or higher GTP score for abstracts (Avg = 98.6). These 75 articles represent 72.1% of all articles published in this journal that are in Control E.

| Journal                               | Article abstracts with GPT detector score $\geq 70\%$ |                    | Total articles<br>in journal (%) |
|---------------------------------------|-------------------------------------------------------|--------------------|----------------------------------|
|                                       | Average GPT detector score (%)                        | Number of articles |                                  |
| <i>J. Alloy. Compd.</i>               | 92.7                                                  | 104                | 5.6                              |
| <i>Sci. Total Environ.</i>            | 93.0                                                  | 81                 | 3.3                              |
| <i>J. Clean Prod.</i>                 | 92.5                                                  | 76                 | 4.4                              |
| <i>Microprocess. Microsyst.</i>       | 98.6                                                  | 75                 | 72.1                             |
| <i>J. Mol. Struct.</i>                | 93.3                                                  | 73                 | 9.5                              |
| <i>Chem. Eng. J.</i>                  | 90.8                                                  | 68                 | 4.3                              |
| <i>Appl. Surf. Sci.</i>               | 93.8                                                  | 64                 | 5.3                              |
| <i>Mater. Lett.</i>                   | 93.5                                                  | 62                 | 9.8                              |
| <i>Ceram. Int.</i>                    | 91.5                                                  | 61                 | 4.9                              |
| <i>Sens. Actuator B-Chem.</i>         | 92.3                                                  | 48                 | 7.5                              |
| <i>Int. J. Hydrog. Energy</i>         | 91.4                                                  | 47                 | 5.0                              |
| <i>Chemosphere</i>                    | 93.6                                                  | 47                 | 3.6                              |
| <i>J. Colloid Interface Sci.</i>      | 94.6                                                  | 46                 | 5.4                              |
| <i>J. Hazard. Mater.</i>              | 92.9                                                  | 45                 | 3.7                              |
| <i>J. Mol. Liq.</i>                   | 91.2                                                  | 45                 | 6.7                              |
| <i>Biochem. Biophys. Res. Commun.</i> | 93.4                                                  | 42                 | 7.9                              |

72.1% of *MicroPro* abstracts published in 2021 have a 98.6% GPT score

Real 0.18% Fake 99.82%



## Tortured Phrases Detector

Matches with 2+ tortured phrases (e.g., credulous Bayes, counterfeit consciousness)

Cabanac, G., Labbé, C., & Magazinov, A. (2022). "Bosom peril" is not "breast cancer": How weird computer-generated phrases help researchers find scientific publishing fraud.  
*Bulletin of the Atomic Scientists*. [Online](#)

Cabanac, G., Labbé, C., & Magazinov, A. (2021). Tortured phrases: A dubious writing style emerging in science. Evidence of critical issues affecting established journals.  
*arXiv preprint*, <https://arxiv.org/abs/2107.06751> (supplementary materials)  
 Featured in *Nature* ([Else, 2021](#))

Check [potentially problematic papers](#) and report on [PubPeer](#): the last column will link to your PubPeer comment.

Report True/False Positives, ideas, or else using the [Feedback](#) feature.

Go 1. Primary Report Rows 20 Actions

1 - 20 of 4259

| Year | Doctype | Publisher                                     | Venue                                                                        | Title                                                                              | Citations | Altmetric | Tips ↓ | Tortured Phrases                                                                                                                                                                                                                                                                                                | Assessor | PubPeer Users     |
|------|---------|-----------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------|
| 2021 | article | Institute of Advanced Engineering and Science | Indonesian Journal of Electrical Engineering and Computer Science            | A comparative and comprehensive study of prediction of Parkinson's disease         | 0         | 0         | 20     | Alzheimer's infection • Parkinson's infection • Parkinson's sickness • R2 esteem • arbitrary backwoods • backing vector machine • dimensionality decrease • fake neural • fluffy C implies • gullible Bayes • head part investigation • help vector machine • inertial estimation unit • invulnerable framew... | Cabanac  | Guillaume Cabanac |
| 2020 | chapter | Springer Nature                               | Internet of Things Use Cases for the Healthcare Industry                     | AI and IoT in Healthcare                                                           | 2         | 0         | 20     | Alzheimer's ailment • Alzheimer's infection • Alzheimer's sickness • Parkinson's ailment • Parkinson's sickness • attractive reverberation • brilliant AND keen AND savvy AND shrewd • calculated relapse • creating nations • help vector machine • hereditary programming • information distribution cente... | Cabanac  | N. H. Wise        |
| 2017 | article | World Scientific Publishing                   | International Journal of Wavelets Multiresolution and Information Processing | Applications of wavelet transform on power engineering problems — A brief review   | 0         | 0         | 19     | back proliferation • back spread AND neural • bolster vector machine • concealed layer • cross breed model • discrete Fourier change • fake neural • fast Fourier change • fluffy deduction • fluffy rationale • hereditary calculation • manufactured neural • molecule swarm • moving normal (ARIMA) • sel... | Cabanac  | Guillaume Cabanac |
| 2021 | chapter | Wiley                                         | Green Internet of Things and Machine Learning                                | Machine Learning-Enabled Techniques for Reducing Energy Consumption of IoT Devices | 0         | 0         | 18     | brilliant metering • brilliant AND keen AND savvy AND shrewd • counterfeit neural • field programmable entryway exhibit • irregular woodland • keen city • keen gadget • keen home • man-made brainpower • savvy metering • shrewd city • shrewd home • shrewd metering • sun oriented force • uphold vector... | Cabanac  | Guillaume Cabanac |

| Year | Doctype    | Publisher                                                | Venue                                                                                                               | Title                                                      | Citations | Altmetric | Tips ↓ | Tortured Phrases                                                                                                                                                                                           | Assessor                       |
|------|------------|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-----------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| 2021 | proceeding | Institute of Electrical and Electronics Engineers (IEEE) | 2021 International Conference on Advances in Computing, Communication, and Control (ICAC3)                          | HVAC Hybrid Control methods for HEE in Buildings: Overview | 0         | 0         | 9      | back spread AND neural • counterfeit neural • enhancement calculation AND optimiz* • fluffy rationale • hereditary calculation • profound neural organization • square blunder • warm solace • warmth move | Invitation for human assessors |
| 2019 | proceeding | Institute of Electrical and Electronics Engineers (IEEE) | 2019 4th International Conference on Recent Trends on Electronics, Information, Communication & Technology (RTEICT) | Handling 3vs of Big Data Through Swarm Intelligence        | 1         | 0         | 7      | computerized reasoning • enhancement calculation AND optimiz* • figuring asset • genuine esteemed • hereditary calculation • molecule swarm • wellness esteem                                              | Invitation for human assessors |



## Microarray Gene Expression Analysis Using Fuzzy Logic (MGA-FL)

First International Conference on Sustainable Technologies for Computational Intelligence (2019) - 1 Comment  
doi: 10.1007/978-981-13-1951-8\_16 issn: 2194-5357 issn: 2194-5365

Daksh Khanna, Tanupriya Choudhury, A. Sai Sabitha, Nguyen Gia Nhu

### #1 Elisabeth M Bik

This article costs € 27.20 / \$ 32.20 on the Springer website. I would not recommend to purchase it, however.

This paper appears to contain "Tortured Phrases": non-sensical, synthetic text generated by synonym converter tools, as described in this preprint by Cabanac, Labbé, and Magazinov, arXiv:2107.06751 - <https://arxiv.org/abs/2107.06751>. As explained in the preprint, text might have been 'synonymized' to mask plagiarism.

Parts of this paper appear to contain synonymized paragraphs from Wikipedia ([https://en.wikipedia.org/wiki/DNA\\_microarray](https://en.wikipedia.org/wiki/DNA_microarray)):

- Wikipedia: "Each DNA spot contains picomoles (10EXP-12 moles) of a specific DNA sequence, known as probes (or reporters or oligos). These can be a short section of a gene or other DNA element that are used to hybridize a cDNA or cRNA (also called anti-sense RNA) sample (called target) under high-stringency conditions. Probe-target hybridization is usually detected and quantified by detection of fluorophore-, silver-, or chemiluminescence-labeled targets to determine relative abundance of nucleic acid sequences in the target. The original nucleic acid arrays were macro arrays approximately 9 cm × 12 cm and the first computerized image based analysis was published in 1981."
- Khanna et al. (2019): "Each Deoxyribonucleic Acid spot consist of micro-moles (appx. 11 mol) of a particular Deoxyribonucleic Acid progression, justified as tests (or writers or oligos). It can be a small territory of a quality or other DNA segment which is used to hybridize a complementary DNA/complementary RNA (in like manner called antagonistic to identify Ribonucleic Acid) test (called centre) under high-stringency terms. Test object hybridization is normally recognized and acquired through distinguishing proof of "fluorophore-, silver-, or chemiluminescence"—named centres to choose relatively abundant nucleic destructive game plans for the goal. The principal nucleic destructive displays were expansive scale groups around 9 cm × 12 cm and the fun- damental modernized picture based examination was circulated in 1981."

Figure 1 looks identical to a Wikimedia file found here:

[https://commons.wikimedia.org/wiki/File:Microarray\\_exp\\_horizontal.svg](https://commons.wikimedia.org/wiki/File:Microarray_exp_horizontal.svg)

Text from Section 3 appears to be a synonymized version of Fernando Díaz et al., Using Fuzzy Patterns for Gene Selection and Data Reduction on Microarray Data, IDEAL 2006, LNCS 4224, pp. 1087 – 1094, 2006, DOI: 10.1007/11875581\_129. Here is an example:

tortured



878 results

## AI Techniques for COVID-19

IEEE Access (2020) - 2 Comments  
doi: 10.1109/access.2020.3007939 issn: 2169-3536

Adedoyin Ahmed Hussain, Ouns Bouachir, Fadi Al-Turjman, Moayad Aloqaily

### #1 N. H. Wise

This paper already has 34 citations, I guess because Covid-19 and AI are both very hot topics, but appears to have been written using a thesaurus engine to avoid plagiarism detection.

The abstract alone contains the tortured phrases 'neural systems' for 'neural networks', and 'edge significant learning', which only gives 10 results on Google, most of which are for this paper.

The first paragraph of the introduction is in unusual language and contains telling incorrect definitions of abbreviations, such as 'mad-made brainpower (AI)', and ends with 'Meanwhile, Insilico Medicine situated in Hong Kong as of late declared that it's AI calculations had planned six new atoms that could end viral replication'.

The rest of the introduction is in a similar style and contains the tortured phrases 'twofold tree' (for 'binary tree' for 'dual tree?') and 'convolutional neural system (CNN)'.

Many other sections of the paper contain tortured phrases and nonsensical sentences, suggesting much of the paper has been plagiarised.

report permalink Reply

### #2 Salsola Zygyphylla



This paper contains a prime example of thesaurus gone wild: "extreme intense respiratory disorder (SARS)". Given that those who use the PubPeer browser plugin are going to be directed to this page whenever this paper turns up in a search or on a web page, it seems both fair and useful to ask the authors: What contribution to knowledge do you think you have made with this publication? The same question could fairly and usefully be asked of those who cited it.

## Polymers, responsiveness and cancer therapy

Artificial Cells Nanomedicine and Biotechnology (2019) - 1 Comment  
doi: 10.1080/21691401.2018.1559176 issn: 2169-1401 issn: 2169-141x pubmed: 30688110

Anil M. Pethe, Khushwant S. Yadav

### #1 N. H. Wise

This paper contains tortured phrases suggesting the use of a thesaurus engine to avoid plagiarism detection. Specifically, it refers to 'corrosive' instead of 'acid', leading to:

- 'nucleic corrosive' - nucleic acid
- 'acrylic corrosive' - acrylic acid
- 'phosphoric corrosive' - phosphoric acid



## Low cost Covid-19 preliminary diagnosis utilizing cough samples and keenly intellective deep learning approaches

Alexandria Engineering Journal (2021) - 1 Comment  
doi: 10.1016/j.aej.2020.09.032 issn: 1110-0168

D. Sudaroli Vijayakumar, Monica Sneha

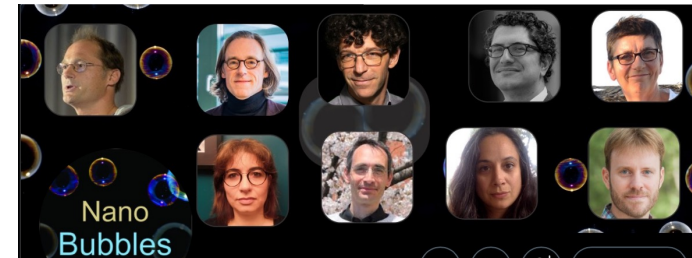
### #1 N. H. Wise

This paper contains phrases that suggest the use of a thesaurus engine to avoid plagiarism detection. Examples include:

- 'Nucleic Corrosive Enhancement Tests (NAAT)' - Nucleic acid amplification tests
- 'real-time Turn around Translation Polymerase Chain Response (rRT-PCR)' - real-time reverse transcription polymerase chain reaction
- 'flag to clamor' - signal to noise
- 'sifted flag' - filtered signal



Despite the paper being on 'cough', 'cough' only appears in the title, abstract and **once** in the body of the text. Instead, 'hack' appears over 40 times, including in section titles.



<https://nanobubbles.hypotheses.org>

## Cloud-Based Breast Cancer Prediction Empowered with Soft Computing Approaches

Journal of Healthcare Engineering (2020) - 1 Comment  
doi: 10.1155/2020/8017496 issn: 2040-2295 issn: 2040-2309 pubmed: 32509260

Farrukh Khan, Muhammad Adnan Khan, Sagheer Abbas, Atifa Athar, Shahan Yamin Siddiqui, Abdul Hannan Khan, Muhammad Anwaar Saeed, Muhammad Hussain

### #1 Diradops Cardena

This article shows clear evidence of 'tortured phrases'. To give a few examples:



- **bosom malignancy** (breast cancer)
- **Prepreparing** (preprocessing)
- **crusty logic** (crisp logic, a term anyone who is writing a paper on fuzzy logic could be expected to know!)
- **imitation** (simulation)

Considering that this paper deals with the clinical applications of ML for a potentially fatal disease, it's rather inappropriate and dangerous that it slipped past controls.

There's also a lot of extremely trivial maths, which appears to have been included for no other purpose than to 'bulk up' the paper (see eqns. 5-10, which might be appropriate in a high school textbook but not an academic paper).

Tortured Phrases as a tip from an informant...

Many other flaws to detect!

! Expert knowledge needed

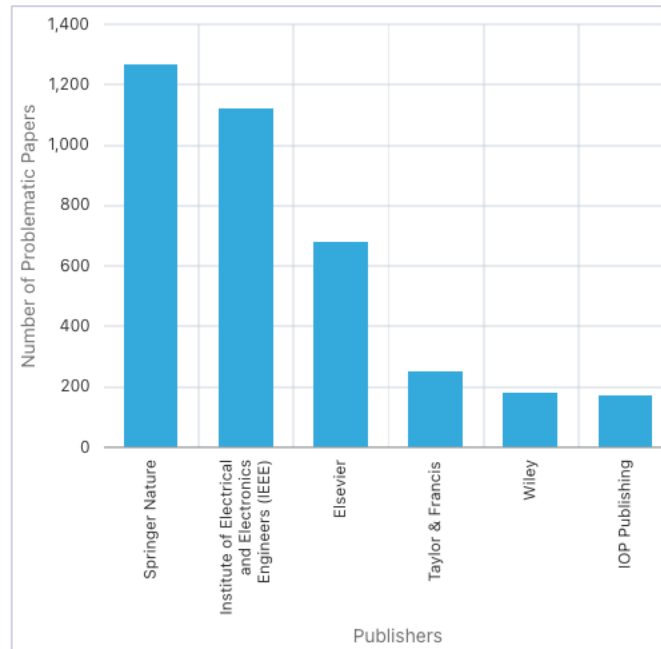
**Guillaume Cabanac** @gcabanac · 1 Mar

The 'Problematic Paper Screener' has just turned one 🎂. It flags 5,716 articles as problematic with 7 detectors. They are cited 38k times 😞 Only 1,516 reported on @PubPeer. Let's depollute the scientific literature: 3,226 tortured papers to re-assess 🔍 [irit.fr/~Guillaume.Cab...](http://irit.fr/~Guillaume.Cab...)

3/10,000 problematic papers published in 2021 :  
 - 68% affiliated to India  
 - 9% affiliated to China

| Citation count |
|----------------|
| 15,717         |

| 1 - 20 of 4421 >                                                                                                                                                                                                                                                                                                |          |                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------|
| Tortured Phrases                                                                                                                                                                                                                                                                                                | Assessor | PubPeer Users     |
| Alzheimer's infection • Parkinson's infection • Parkinson's sickness • R2 esteem • arbitrary backwoods • backing vector machine • dimensionality decrease • fake neural • fluffy C implies • gullible Bayes • head part investigation • help vector machine • inertial estimation unit • invulnerable framew... | Cabanac  | Guillaume Cabanac |
| Alzheimer's ailment • Alzheimer's infection • Alzheimer's sickness • Parkinson's ailment • Parkinson's sickness • attractive reverberation • brilliant AND keen AND savvy AND shrewd • calculated relapse • creating nations • help vector machine • hereditary programming • information distribution cente... | Cabanac  | N. H. Wise        |



| 1 - 20 of 3248 >                                                                                                                                             |                                |               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------------|
| Tortured Phrases                                                                                                                                             | Assessor                       | PubPeer Users |
| back proliferation • back spread AND neural • district of intrigue • genuine esteemed • locale of enthusiasm • viewpoint proportion • yield layer AND neural | Invitation for human assessors | -             |
| directing convention • hereditary calculation • hub assault • man in the center • molecule swarm • pernicious hub • steering convention                      | Invitation for human assessors | -             |
| directing convention • malevolent hub • malignant hub • middle of the road hub • noxious hub • steering convention • versatile hub                           | Invitation for human assessors | -             |

nature

NEWS | 27 May 2021 | Clarification [28 May 2021](#)

## Hundreds of gibberish papers still lurk in the scientific literature

The nonsensical computer-generated articles, spotted years after the problem was first seen, could lead to a wave of retractions.

[Richard Van Noorden](#)

NEWS | 05 August 2021 | Correction [10 August 2021](#)

## ‘Tortured phrases’ give away fabricated research papers

Analysis reveals that strange turns of phrase may indicate foul play in science.

[Holly Else](#)

NEWS | 08 November 2021

## Scammers impersonate guest editors to get sham papers published

Hundreds of junk-science papers have been retracted from reputable journals after fraudsters used ‘special issues’ to manipulate the publication process. And the problem is growing.

[Holly Else](#)

“It is very worrying,” says Guillaume Cabanac, a computer scientist at the University of Toulouse in France, who has worked to uncover nonsense science papers in special issues. He adds that it is shocking to see such papers in journals from ‘flagship’ publishers and that “it is not only predatory journals that publish bullshit”.

July 19, 2021 Adam Marcus

**‘Tortured phrases’, lost in translation: Sleuths find even more problems at journal that just flagged 400 papers**

August 26, 2021 Ivan Oransky

**Guest editor says journal will retract dozens of inappropriate papers after his email was hacked**

September 22, 2021 Adam Marcus

**“[T]hese shit comments”: Author of a nonsense paper responds on PubPeer**

September 28, 2021 Ivan Oransky

**Springer Nature slaps more than 400 papers with expressions of concern all at once**

November 4, 2021 Adam Marcus

**Springer Nature geosciences journal retracts 44 articles filled with gibberish**

Retraction  
Watch

February 23, 2022 Ivan Oransky

**Publisher retracts 350 papers at once**



The Nature's 10 list explores key developments in science this year and some of the people who played important parts in these milestones. Along with their colleagues, these individuals helped to make amazing discoveries and brought attention to crucial issues. Nature's 10 is not an award or a ranking. The selection is compiled by Nature's editors to highlight key events in science through the compelling stories of those involved.

#### Feature Nature's 10

## Guillaume Cabanac Deception sleuth

This computer scientist helped to uncover a new kind of fabricated paper.

By Diana Kwon

Underground creepy crawl state. Bosom malignancy. Sun oriented force. These might sound like expressions from a work of fiction, but they are actually strange translations, pulled from the scholarly literature, of scientific terms – ant colony, breast cancer and solar energy, respectively. Guillaume Cabanac, a computer scientist at the University of Toulouse, France, spots such bizarre phrases in academic papers every day.

...



#### Feature

# NATURE'S 10

Ten people who helped shape science in 2021.

Winnie Byanyima / Friederike Otto / Zhang Rongqiao /  
Timnit Gebru / Tulio de Oliveira / John Jumper /  
Victoria Tauli-Corpuz / Guillaume Cabanac /  
Meaghan Kall / Janet Woodcock

The Nature's 10 list explores key developments in science this year and some of the people who played important parts in these milestones. Along with their colleagues, these individuals helped to make amazing discoveries and brought attention to crucial issues. Nature's 10 is not an award or a ranking. The selection is compiled by Nature's editors to highlight key events in science through the compelling stories of those involved.

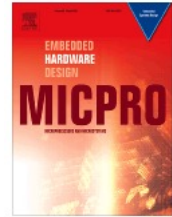
ILLUSTRATION BY ELENA CALOGERO BIANCHI



## MODUS OPERANDI

1. Algorithmic Text Generation: SClgen
2. Plagiarism and Tortured Phrases
3. Peer Review Hacking
4. Paper Mills
5. Citation Hacking

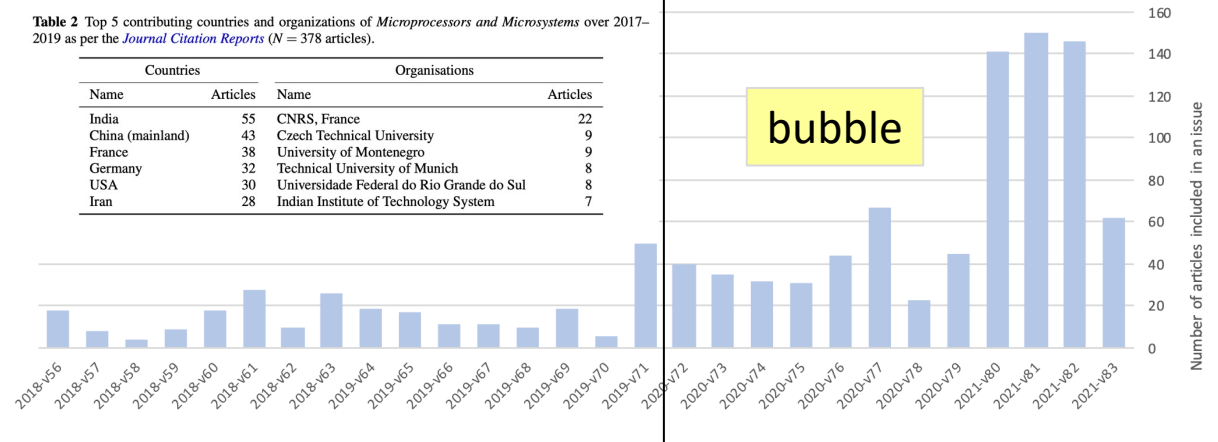
# Weak signals of manipulation



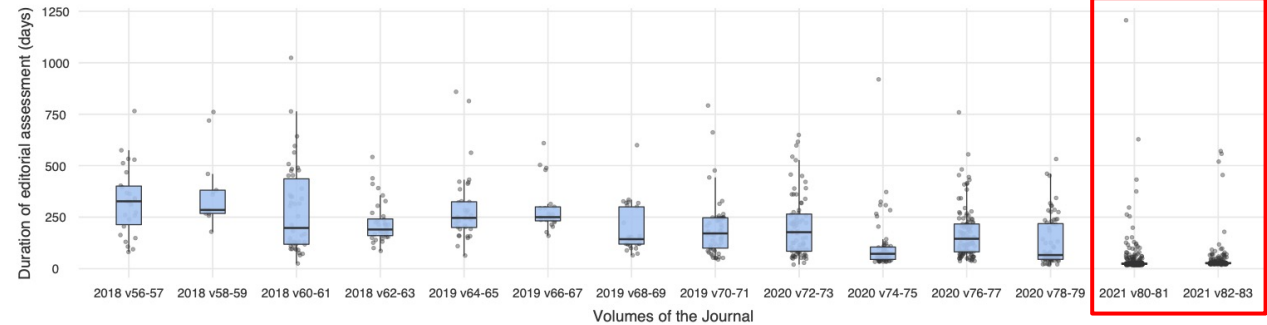
Impact Factor  
1.525

**Table 2** Top 5 contributing countries and organizations of *Microprocessors and Microsystems* over 2017–2019 as per the *Journal Citation Reports* ( $N = 378$  articles).

| Countries        |          | Organisations                             |          |
|------------------|----------|-------------------------------------------|----------|
| Name             | Articles | Name                                      | Articles |
| India            | 55       | CNRS, France                              | 22       |
| China (mainland) | 43       | Czech Technical University                | 9        |
| France           | 38       | University of Montenegro                  | 9        |
| Germany          | 32       | Technical University of Munich            | 8        |
| USA              | 30       | Universidade Federal do Rio Grande do Sul | 8        |
| Iran             | 28       | Indian Institute of Technology System     | 7        |



**Fig. 2** Number of articles included in the volumes 56–83 of *Microprocessors and Microsystems*.



**Fig. 3** Editorial assessment at *Microprocessors and Microsystems*: duration in days elapsed from submission to acceptance of the 1,078 articles published in volumes 56–83 issued between February 2018 and June 2021. The same data are presented with three complementary visualisations. The volumes of early 2021 (v80–83,  $N = 499$ ,  $Med = 25$  days) compared to the volumes of early 2020 (v74–77,  $N = 174$ ,  $Med = 108$ ), see Tab. 3.

### Retraction Watch

Tracking retractions as a window  
into the scientific process

July 19, 2021 Adam Marcus

# ‘Tortured phrases’, lost in translation: Sleuths find even more problems at journal that just flagged 400 papers

What do subterranean insect provinces and motion to clamor have to do with microprocessors and microsystems?

That’s an excellent question. Read on, dear reader.

Earlier this month, as we reported, Elsevier announced that it had concerns about some 400 papers published in special issues in one of its journals. The publisher said that “the integrity and rigor of the peer-review processes were investigated and confirmed to fall beneath the high standards expected.”



Guillaume Cabanac

Update, 1140 UTC, 7/21/21: An Elsevier spokesperson gave us this statement:

*The Editor in Chief of Microprocessors & Microsystems has serious concerns about the integrity and rigor of the peer-review processes that led to the publication of over 400 papers in six Special Issues, as previously reported. Investigation and due process regarding individual articles published in these Special Issues is ongoing. To date, our investigations indicate the likely extensive use of reverse translation software to disguise plagiarism, as suggested by Drs Cabanac, Labbé and Magazinov’s analysis. We appreciate the authors helping bring this issue to light. We will provide further updates in accordance with Elsevier and the Committee on Publication Ethics best practices once the investigations have concluded.*

## Case 2: Arabian Journal of Geosciences (Springer)

The official journal of the Saudi Society for Geosciences, the Arabian Journal of Geosciences examines the entire range of earth science topics focused on, but not limited, to those that have regional significance to the Middle East and the Euro-Mediterranean Zone.

1.827 (2020)  
Impact factor

### Use Case: the Arabian Journal of Geosciences

▷ August 23, 2021: Eracon Lachesis and Alexander Magazinov reported on PubPeer issues with a publication from Arabian Journal of Geosciences. See this annotated example:

Without transition, just concatenated!

### Retraction Watch

Tracking retractions as a window into the scientific process

September 28, 2021 Ivan Oransky

## Springer Nature slaps more than 400 papers with expressions of concern all at once



Cartoon by Hilda Bastian (license)

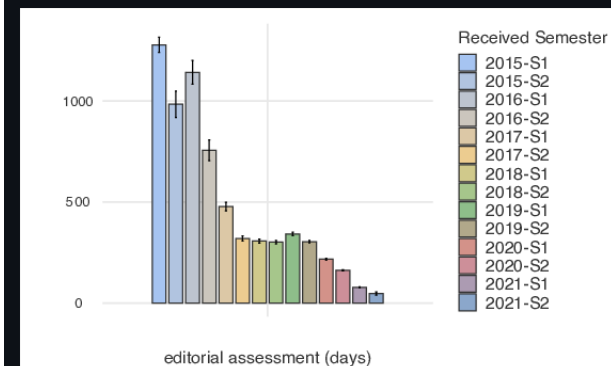
A total of 436 papers in two Springer Nature journals are being subjected to expressions of concern, in the latest case of special issues — in this case, “topical collections” — likely being exploited by rogue editors or impersonators.

<https://retractionwatch.com/2021/09/28/springer-nature-slaps-more-than-400-papers-with-expressions-of-concern-all-at-once/>

We observed an impressive and questionable shrinking of the duration of editorial assessments:

- 282 days in 2019-S2
- 159 days in 2020-S2
- 47 days in 2021-S2

▷ September 28, 2021: Springer published Expressions of concern for 436 publications in the Arabian Journal of Geosciences.



<https://github.com/gcabanac/editorial-assessment>



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<https://fr.wikipedia.org/wiki/Dépollution>

Volunteers decontaminating a beach after the *Prestige* spillover of 2002.

### We must decontaminate the scientific literature

|                 |                                                                                                                                          |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Villains:       | scammers who are pseudo-authors                                                                                                          |
| Motive:         | promotion, recognition, symbolic capital                                                                                                 |
| Modus operandi: | plagiarism, journal hijacking, buying of citations                                                                                       |
| Consequences:   | pollution of the literature<br>erosion of the trust society places in science                                                            |
| Detectives:     | professional and scientists and hobbyists<br>volunteers contributing <i>pro bono</i>                                                     |
| Aim:            | curative → decontaminate the literature<br>preventive → anticipate new manipulations                                                     |
| Means:          | Decentralised re-assessment supported by the<br><i>Problematic Paper Screener</i><br>AI to detect errors, paraphrasing, data fabrication |

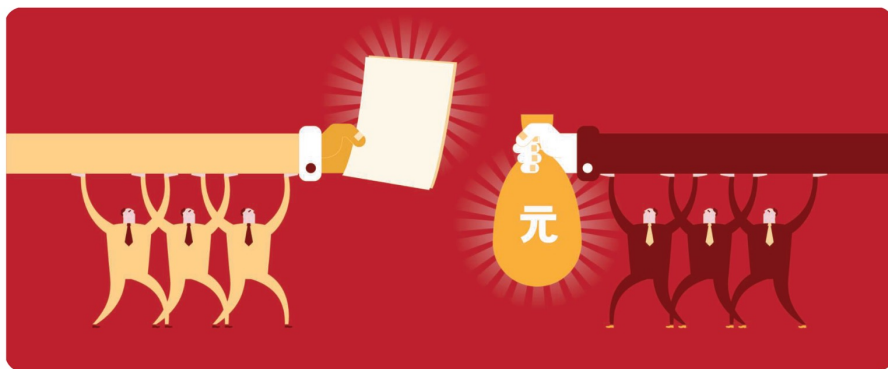


## MODUS OPERANDI

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5. Citation Hacking

—MARA HVISTENDAHL

www.sciencemag.org SCIENCE VOL 342 29 NOVEMBER 2013



## China's Publication Bazaar

A Science investigation has uncovered a smorgasbord of questionable practices including paying for author's slots on papers written by other scientists and buying papers from online brokers

**"IT'S UNBELIEVABLE: YOU CAN PUBLISH SCI PAPERS WITHOUT DOING EXPERIMENTS."**

—Banner on Sciedit's website

Description of the manipulation (February 2022) :

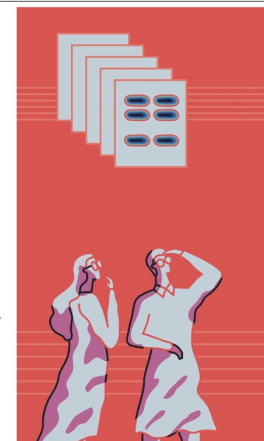
<https://pubpeer.com/publications/940C291607CF03969C6A936F8BA5B9#2>

Feature

516 | Nature | Vol 591 | 25 March 2021

## THE BATTLE AGAINST PAPER MILLS

Some journals have admitted to a problem with fake research papers. Now editors are trying to combat it. **By Holly Else and Richard Van Noorden**



### Industrialized cheating

The problem of organized fraud in publishing is not new, and **not confined to China**, notes Catriona Fennell, who heads publishing services at the world's largest scientific publisher, Elsevier. "We've seen evidence of industrialized cheating from several other countries, including **Iran and Russia**," she told *Nature* last year. Others have also reported on Iranian and Russian paper-mill activities.

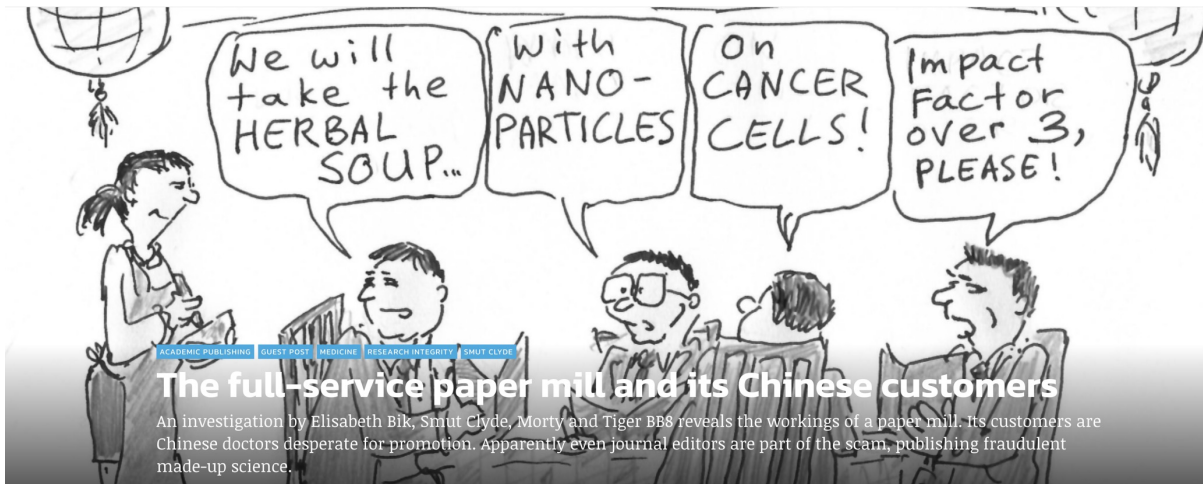
In a statement this year to *Nature*, Elsevier said that its journal editors detect and prevent the publication of thousands of probable paper-mill submissions each year, although some do get through.

**China** has long been known to have a problem with **firms selling papers to researchers**, says Xiaotian Chen, a librarian at Bradley University in Peoria, Illinois. As far back as 2010, a team led by Shen Yang, a management-studies researcher then at Wuhan University in China, warned of websites offering to **ghostwrite** papers on fictional research, or to bypass peer-review systems for payment. In 2013, *Science* reported on a market for authorships on research papers in China. In 2017, **China's Ministry of Science and Technology (MOST)** said it would crack down on misconduct after a scandal in which **107 papers were retracted at the journal *Tumor Biology***; their peer reviews had been fabricated and a MOST investigation concluded that some had been produced by third-party companies.

**Physicians in China** are a particular target market because they typically need to publish research articles to **gain promotions**, but are so busy at hospitals that they **might not have time to do the science**, says Chen. Last August, the Beijing municipal health authority published a policy stipulating that an attending physician wanting to be promoted to deputy chief physician must have **at least two first-author papers published in professional journals**; three first-author papers are required to become a chief physician. These titles affect

# For Better Science

BY LEONID SCHNEIDER, ON RESEARCH INTEGRITY, BIOMEDICAL ETHICS AND ACADEMIC PUBLISHING



BY LEONID SCHNEIDER  
JANUARY 24, 2020

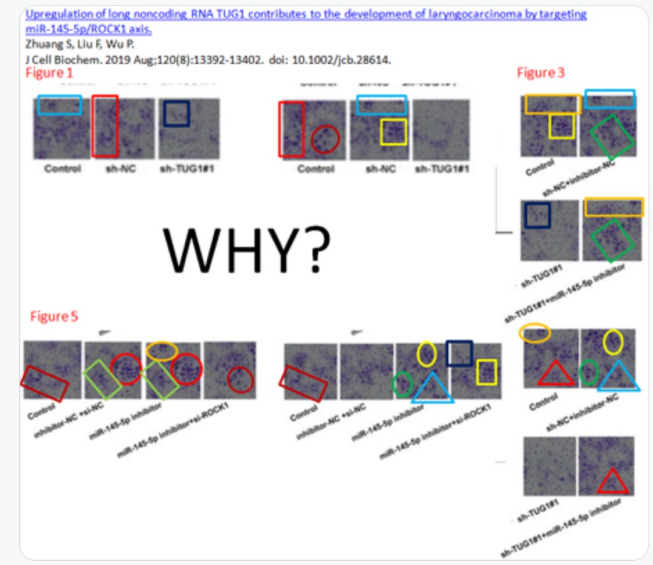
In China, clinicians are expected to publish a certain number of research papers in international journals if they want to be promoted. The easiest way is to pay a paper mill, which seem to provide a full service: an English-speaking research paper containing Photoshop-generated fake research data, in a respectable peer-reviewed journal, with your name on it. Entire journals published by Wiley or Elsevier succumb to such scams, presumably because certain corrupt editorial board members are part of it. This was uncovered in an investigation by Elisabeth Bik, as well as the pseudonymous Smut Clyde, Morty and Tiger BB8, and narrated below by Smut Clyde.

The presently almost 500 papers were traced to one specific paper mill not because of direct image reuse, but because the data showed same patterns of falsifications: same blot backgrounds, same shapes of bands, and similarly falsified flow cytometry plots.



Morty @mortenoxe · Jan 20, 2020

Published by Wiley, indexed by the US National Library of Science, and read by scientists. Paid by public funds, all profit to the publisher and some laughter in China. #BetterJournalIndexing #PubPeer #NIH #Wileyinresearch





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## #4 Schizomeris leibleinii commented November 2021

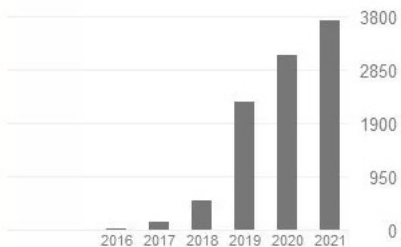


187 results

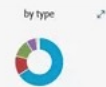
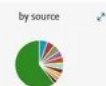
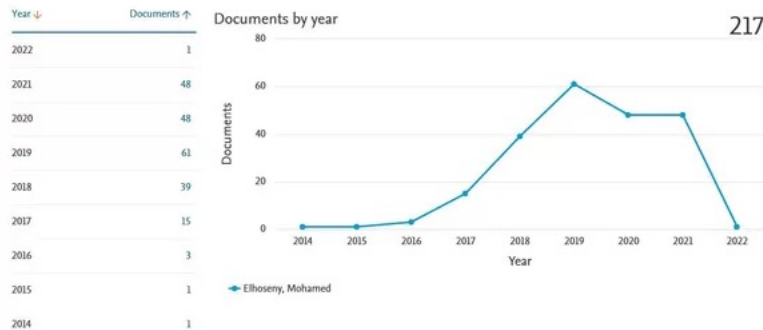
Mohamed Elhoseny has an impressive Output, Citation Count, H-Index and Publons score. According to his website (<http://www.mohamedelhoseny.com/academic-qualifications>) he finished his PhD in 2015. Since then he acquired an impressive H-index of more than 50 according to google scholar:

Cited by

|           | All   | Since 2016 |
|-----------|-------|------------|
| Citations | 10040 | 9989       |
| h-index   | 59    | 58         |
| i10-index | 174   | 174        |



While producing between 40 and 60 papers a year according to Scopus, he also managed to review up to almost one paper per day for several journals in 2018.



## #8 Marianne Alunno-Bruscia commented November 2021

Re #4. M. Elhoseny is part of the 2021 annual list of Highly Cited Researchers™ from Clarivate™ “recognizing influential researchers in the sciences and social sciences from around the world”.

<https://web.archive.org/web/20211116210755/https://publons.com/researcher/1196537/mohamed-elhoseny/>

As stated by Clarivate™:

- “All Highly Cited Researcher records are reviewed. Factors such as retractions, misconduct, and extreme self-citation—all of which would detract from true community-wide research influence—may lead to an author being excluded from the list.”
- “There is no unique or universally agreed concept of what constitutes exceptional research performance and elite status in the sciences and social sciences. Consequently, no quantitative indicators will point to a list that satisfies all expectations or requirements.”

## #1 Guillaume Cabanac commented February 2022

This article cited 32 times contains several tortured phrases that make some passages hard to parse. These typically result from an attempt to avoid plagiarism detection using a paraphrasing software.

need to know the channel state data at the transmitter. The most testing features in VANETs are their dynamic topology and versatility, where vehicles are moving at variable high speeds and in various directions. Conversely, the test in the WSN is in dealing with the constrained energy assets of the nodes, since the execution of WSNs emphatically relies upon their lifetime by Mohaisen et al. [11]. To conquer these difficulties, this exploration researches the impacts of various Quality of Service (QoS)

framework of the PSO algorithm. The progression vector demonstrates the course of the development of the dragonflies and characterized as pursues:

$$\Delta V_{i+1} = (sSe_i + aAl_i + cCo_i + fFood_i + eEnemy_i) + w\Delta V_i \quad (4)$$

**Energy Consumption:** It is referred to as total energy depleted during data transmission of packets from source to destination.

Table 2 clarifies the outcome examination of a proposed model for an alternate number of vehicle nodes. In light of the node quality (efficient course), vehicles are

Can the authors explain why they departed from the established phrases?

How come these incorrect wordings survived proofreading by the coauthors, editors, referees, copy editors, and typesetters?

<https://doi.org/10.53053/MGSA7457>

# Why was a study about autism cited by a paper on plant beauty?

BY DALMEET SINGH CHAWLA / 21 JANUARY 2022

**Citation inflation:** Autism studies, among others, are appearing in the reference lists of unrelated papers, possibly in an attempt to artificially boost authors' metrics.

#1 *Rhipidura albiventris* commented February 2022

A typical citation pattern of GW Wei, the first author of this paper.

## 1. Introduction

The ordered weighted aggregation (OWA) operator (Yager, 1988) as an aggregation technique has received more and more attention since its appearance (Merigó & Casanovas, 2009; Merigó & Gil-Lafuente, 2009; Merigó, 2010; Wei, 2008a, 2008b, 2008c, 2009a, 2009b, 2010a, 2010b, 2010c, 2010d; Wei, Zhao, & Lin, 2010; Wei, 2011a, 2011b, 2011c; Wei, Wang, Lin, & Zhao, 2011a, 2011b, Wei, Wang, & Lin, 2011c; Wei, 2011d, 2011e, 2011f, 2011g; Wei & Zhao, 2012; Zhang & Chu, 2009; Xu & Da, 2003). One important step of the OWA operator is to determine its associated weights. Many authors

dures to obtain a second one and Da (2000) for obtaining arguments a new dependence-ment-dependence results. Xu (2000) weighted aggregation

- 3439–3447.
- Wei, G. W. (2008a). Maximizing deviation making in intuitionistic fuzzy setting. *Wei, G. W. (2008b). Interval-valued intuitionistic fuzzy set. Journal of Information and Computational Science, 14(1), 1–10.*
- Wei, G. W. (2008c). Induced intuitionistic fuzzy aggregation operator and its application to multi-criteria decision making. *Lecture Notes in Artificial Intelligence, 5439–3447.*
- Wei, G. W. (2009a). Uncertain linguistic aggregation operator for group decision making. *International Journal of Uncertainty, 251–267.*
- Wei, G. W. (2009b). Some geometric aggregation operators for dynamic multiple attribute decision making. *International Journal of Uncertainty, 17(2), 179–196.*
- Wei, G. W. (2010a). GRA method for incomplete weight information in interval systems. *23(3), 243–247.*

<https://pubpeer.com/publications/53A55C1EFF05FFABA62DA23350E770>

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\*2020 Journal Citation Reports® Science Edition (Clarivate Analytics, 2021)

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## scientific reports

### OPEN Day-ahead electricity price forecasting using WPT, VMI, LSSVM-based self adaptive fuzzy kernel and modified HBMO algorithm

Rahmad Syah<sup>1,2</sup>, Mohammad Rezaei<sup>3</sup>, Marischa Elveny<sup>4,5</sup>, Meysam Majidi Nezhad<sup>6</sup>, Dadan Ramdan<sup>7</sup>, Mehdi Neshat<sup>4,6</sup> & Afshin Davarpanah<sup>7</sup>

<sup>1</sup>Data Science & Computational Intelligence Research Group, Universitas Medan Area, Medan, Indonesia. <sup>2</sup>Computer Science and Engineering Department, University of Texas at Arlington, Arlington, USA. <sup>3</sup>Data Science & Computational Intelligence Research Group, Universitas Sumatera Utara, Medan, Indonesia. <sup>4</sup>Department of Astronautics, Electrical and Energy Engineering (DIAEE), Sapienza University of Rome, 00184 Rome, Italy. <sup>5</sup>DS & CI Research Group, Universitas Medan Area, Medan, Indonesia. <sup>6</sup>Optimisation and Logistics Group, School of Computer Science, University of Adelaide, Adelaide, Australia. <sup>7</sup>Department of Mathematics, Aberystwyth University, Aberystwyth SY23 3FL, UK. <sup>✉</sup>email: rahmadsyah@staff.uma.ac.id; marischaelveny@usu.ac.id; mehdi.neshat@adelaide.edu.au

17375

<https://doi.org/10.1038/s41598-021-96501-6>

nature portfolio

**Important of price forecasting.** Over the recent years, modern technologies<sup>1–5</sup> shows more potential as view of electricity industry relaxation<sup>6–10</sup> which leads to clear market without an extra force<sup>11–26</sup>, therefore, the number of market participants is increased since they freely accessed to market information<sup>1–9</sup>. Owing to the participants growing and the intense competition forces, the first, fast and correct decisions will be necessary for both enterprises and academia to maximize profit which itself needed to more accurate information of electricity price<sup>27–41</sup>. Owing to the uneconomical way for energy storage<sup>42–47</sup> in large-scale and its decency to different factors such as holidays<sup>48–52</sup>, sudden disturbance in transmission and generation power systems, celebrations, season, etc.<sup>53–55</sup>, the electricity price forecasting will be more difficult than any other financial markets<sup>56–63</sup>. In other words, electricity markets price are the result of the intersection of supply and demand curves<sup>64–70</sup>. The supply demand directly affects by weather conditions and general economy behaviors. In supply side, prices of fuel i.e. gas, coal, oil, etc. and unexpected fails also plays an important role<sup>71–76</sup>. As result, Fig. 1 shows a graphical view of important factors which directly affects on power prices. It is clear that these factors make fluctuations in electricity price signals.

Received: 21 June 2021; Accepted: 2 August 2021  
Published online: 30 August 2021

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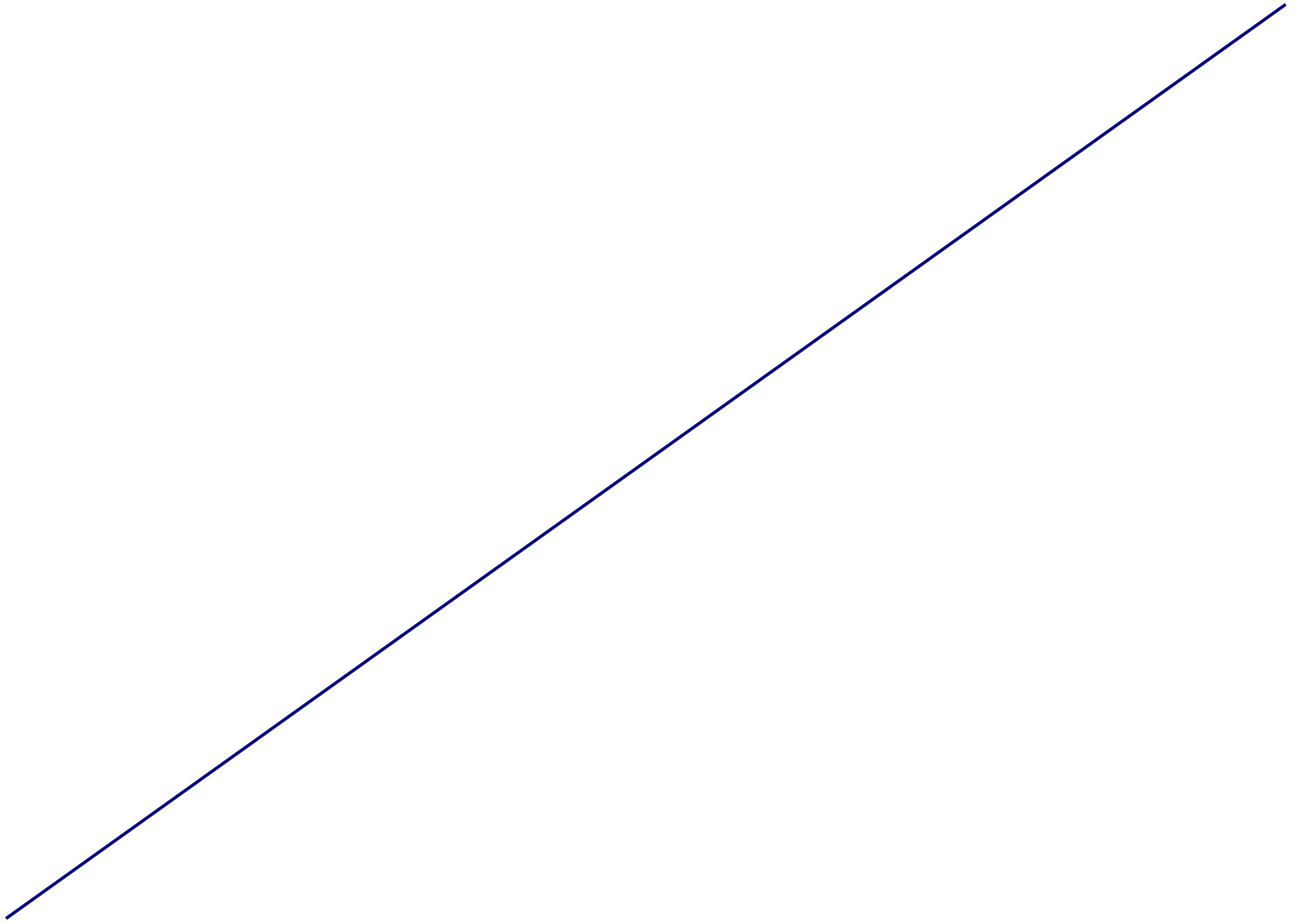
References [1–5] are irrelevant to the subject and the short sentence in the above text!

References [6–10] are irrelevant to the subject and the short sentence in the above text!

References [11–14, 16–17, 19–26] are irrelevant to the subject and the short sentence in the above text!

• • • • •

<https://pubpeer.com/publications/0CDB2AE2C5916CE5789987A4BAA4B>



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- Slide 3 : <https://www.istockphoto.com/fr/photo/trou-dans-le-mur-gm175183459-22041615>
- Slide 4 : <https://sciencenorthwest.com/so-how-do-scientists-ensure-honest-and-truthful-results/>  
[https://twitter.com/h\\_sjastad/status/1207323854873473025](https://twitter.com/h_sjastad/status/1207323854873473025)
- Slide 22 : <https://www.20minutes.fr/monde/2643491-20191104-maree-noire-bresil-pire-venir-avertit-president-jair-bolsonaro>

Posted July 31, 2021.

## Human gene function publications that describe wrongly identified nucleotide sequence reagents are unacceptably frequent within the genetics literature

Yasunori Park,  Rachael A West, Pranujan Pathmendra,  Bertrand Favier,  Thomas Stoeger,  Amanda Capes-Davis,  Guillaume Cabanac,  Cyril Labbé,  Jennifer A Byrne

doi: <https://doi.org/10.1101/2021.07.29.453321>

This article is a preprint and has not been certified by peer review

Publication : <https://doi.org/10.26508/lsa.202101203>

doi:10.1007/s11192-021-03871-9

|                                                   | Claimed status    | Verified status   | Consequences                      |
|---------------------------------------------------|-------------------|-------------------|-----------------------------------|
| Claimed <b>targeting</b> yet <b>wrong target</b>  | 5'- gene X -3'    | 5'- gene Y -3'    | Irrelevant and/or impossible data |
| Claimed <b>non-targeting</b> yet <b>targeting</b> | 5'- no target -3' | 5'- gene X -3'    | Use of invalid negative control   |
| Claimed <b>targeting</b> yet <b>non-targeting</b> | 5'- gene Y -3'    | 5'- no target -3' | Impossible data                   |

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## Errors in genetic sequences mar hundreds of studies

Misreported nucleotide reagents may be rife in papers on human gene function.

[Holly Else](#)



A computer-aided analysis of almost 12,000 human-genetics papers has found more than 700 studies with errors in the DNA or RNA sequences of their experimental reagents<sup>1</sup>. That amounts to a “problem of alarming proportions”, because it suggests that a worrying fraction of studies on human genes are not reliable, says the team that conducted the analysis, led by cancer researcher Jennifer Byrne at the University of Sydney in Australia. The mistakes could be accidental but, researchers suspect, might sometimes point to fraud.

**nature**