

# Dépollution de la littérature scientifique: traque d'expressions torturées et autres manipulations

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Submitted on 4 Mar 2022

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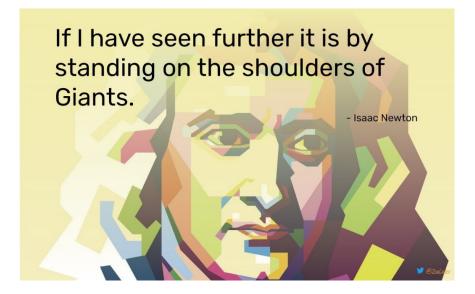
guillaume.cabanac@univ-tlse3.fr, cyril.labbe@univ-grenoble-alpes.fr

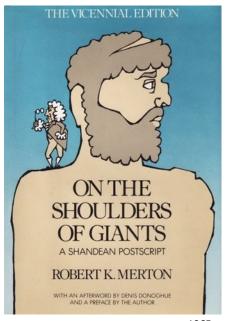
1<sup>er</sup> mars 2022 HCL

# Dépollution de la littérature scientifique : traque d'expression torturées et autres manipulations



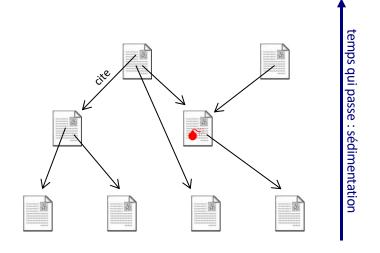






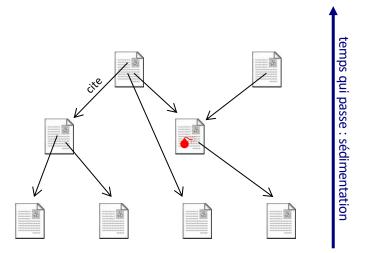
#### la <u>science</u> forme le <u>mur de la connaissance</u>





#### publication erronée = édifice fragilisé





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>®</sup>



⇒ politiques d'austérité

May 5, 2013

#### Errata:

"Growth in A Time of Debt"

Carmen M. Reinhart and Kenneth S. Rogoff

Harvard University



publication corrigée ou rétractée

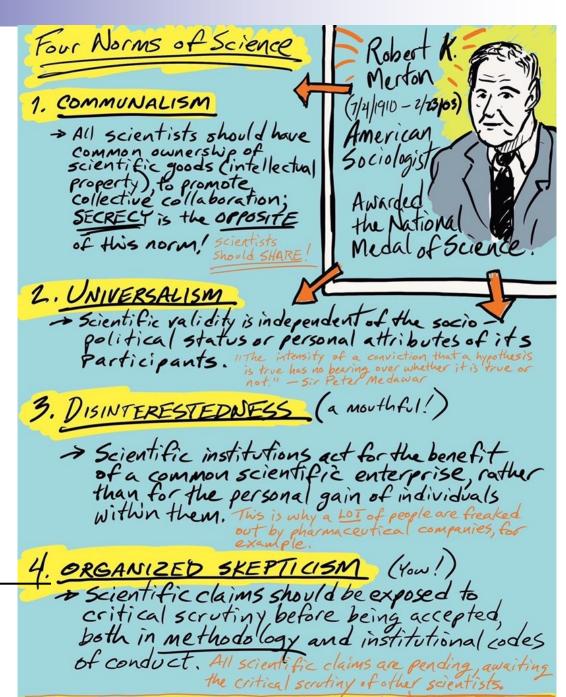
#### Le serment des scientifiques

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



Évaluation par les pairs



## Le champ (de bataille) scientifique

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

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.

#### PIERRE BOURDIEU

Sociologie et sociétés 71 (1975): 91–118.



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 » 57: il suffit de penser à des états anciens du champ des

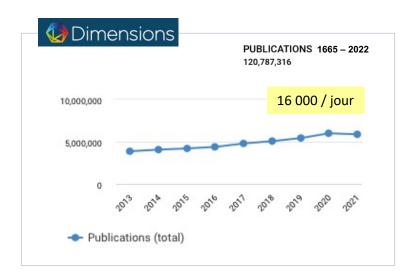
La reconnaissance socialement marquée et garantie (par tout un ensemble de signes spécifiques de consécration 12 que le groupe des pairs-concurrents accorde à chacun de ses membres est fonction de la valeur distinctive de ses produits et de l'originalité collectivement reconnue (au sens de la théorie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

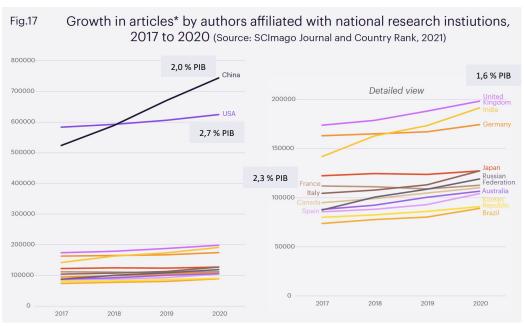
#### Massification et mondialisation





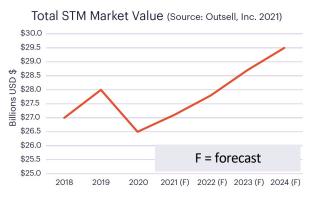




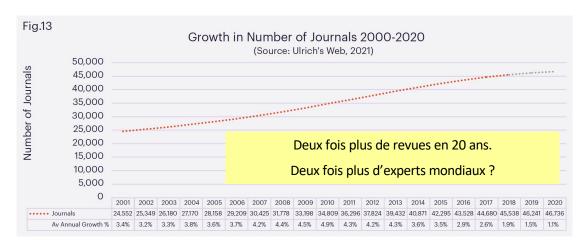


STM Global Brief 2021

## Un business et des oligopoles



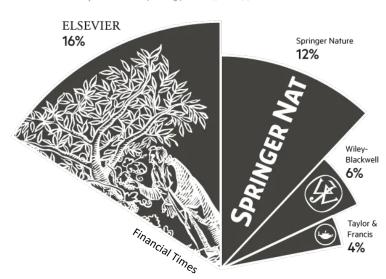
STM Global Brief 2021

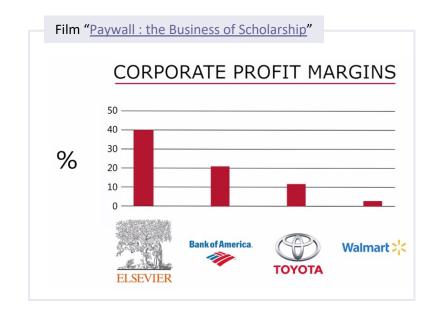


STM Global Brief 2021

#### Elsevier top of the league

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





# **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.

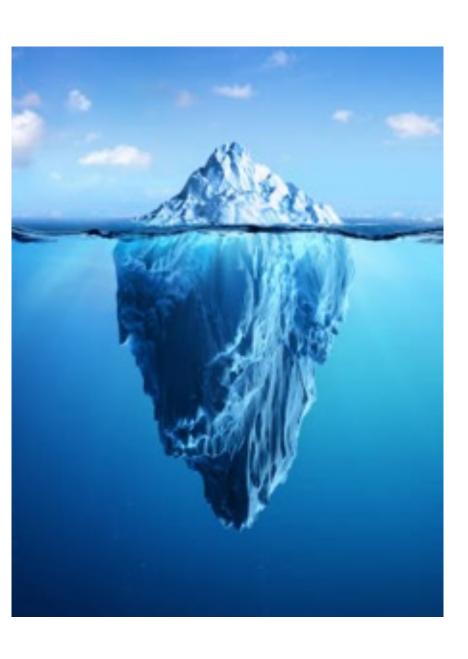
jeffrey.beall@ucdenver.edu

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. Génération algorithmique : SCIgen
- 2. Plagiat et expressions torturées
- 3. Peer Review hacking
- 4. Paper mills alias moulins à papier
- 5. Citation hacking

# Computer conference welcomes gobbledegook paper

#### Philip Ball

946

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 VOL434 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



# Rooter: 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 publicprivate key pair. In order to solve this riddle, we confirm that SMPs can be made stochastic, cacheable, and interposable.

#### 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 pape 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 of a claim at first glance pair [18]. previous work in the secure theory will cle

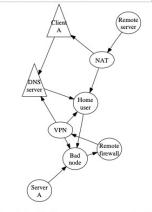
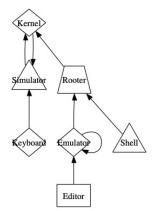


Fig. 1. The relationship between our system and public-private key



The schematic used by our methodology.

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

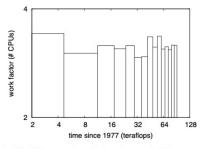


Fig. 3. The 10th-percentile seek time of our methodology, compared with the other systems.

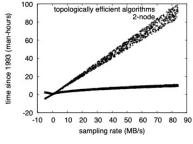


Fig. 4. These results were obtained by Dana S. Scott [16]; we reproduce them here for clarity.

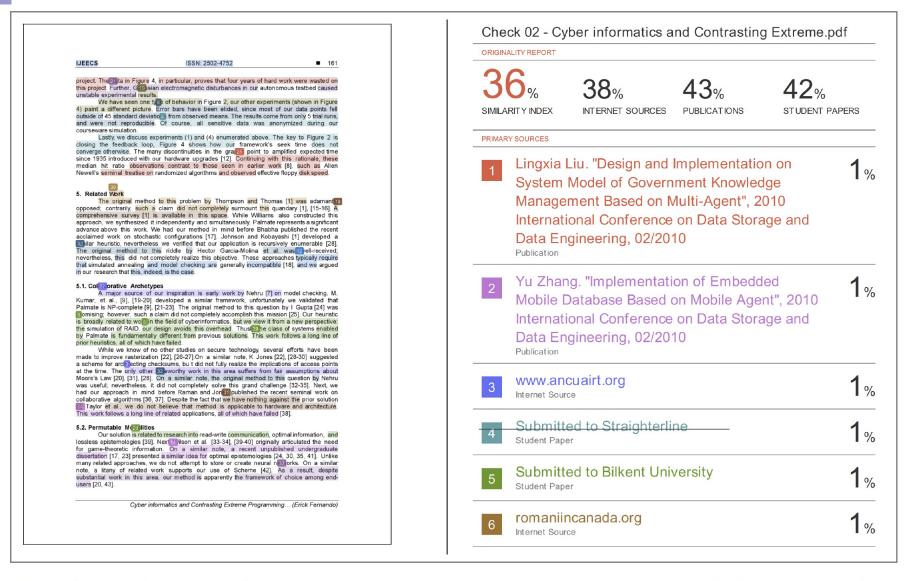
#### A. Hardware and Software Configuration

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 largescale 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 man of our ambadded teethed to mean the collectively a

#### 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
- [3] DAUBECHIES, I., AGUAYO, D., AND PATTERSON, D. A methodology for the synthesis of active networks. In Proceedings of OOPSLA (Mar.
- [4] GAYSON, M. The impact of distributed symmetries on machine learning. Journal of Lossless, Extensible Methodologies 6 (Aug. 2000), 1-13.
- [5] HOARE, C. Moore's Law considered harmful. Journal of Lossless Models 17 (Jan. 1999), 1-14.
- [6] JOHNSON, J., AND JACKSON, Y. Red-black trees no longer considered harmful. TOCS 567 (Aug. 2001), 1-18.

#### Article SCIgen passant sous les radars



**Fig. 2** A plagiarism report (right) that Dimensions indexed in lieu of the original paper (left) shown with the allegedly plagiarised passages Tab. 1R.

bidons publiés



#### SCIgen - An Automatic CS Paper Generator

About Generate Examples Talks Code Donations Related People Blog

#### About

SCIgen 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 SCIgen 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: SCIpher!

#### Generate a Random Paper

Want to generate a random CS paper of your own? Type in some optional author names below, and click "Generate".

Author 1: Jeremy Stribling Author 2: Daniel Aguayo Author 3: Maxwell Krohn Author 4: Author 5: Generate Reset

SCIgen currently supports Latin-1 characters, but not the full Unicode character set.

https://pdos.csail.mit.edu/archive/scigen/

Q "in fact, few scholars would disagree with" Environ 47 résultats (0,04 s) [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 ...

#### 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 ...

☆ 99 88

☆ 99 Autres articles >>>

#### Synthesizing Sensor Networks and the UNIVAC Computer with Meathe.

D Subbarao, KMVV Prasad - International Journal of ..., 2011 - search.ebscohost.com

... RK University Raikot, 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 ...

☆ 99 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 intelli- gence. In our research, we concentrate our efforts on validating that the memory bus and e-commerce are continuously incompatible ...

☆ 99 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 ...

☆ 99 Autres articles >>>

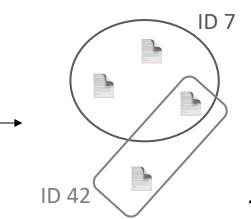
#### Notre contribution : passer la littérature au peigne fin

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



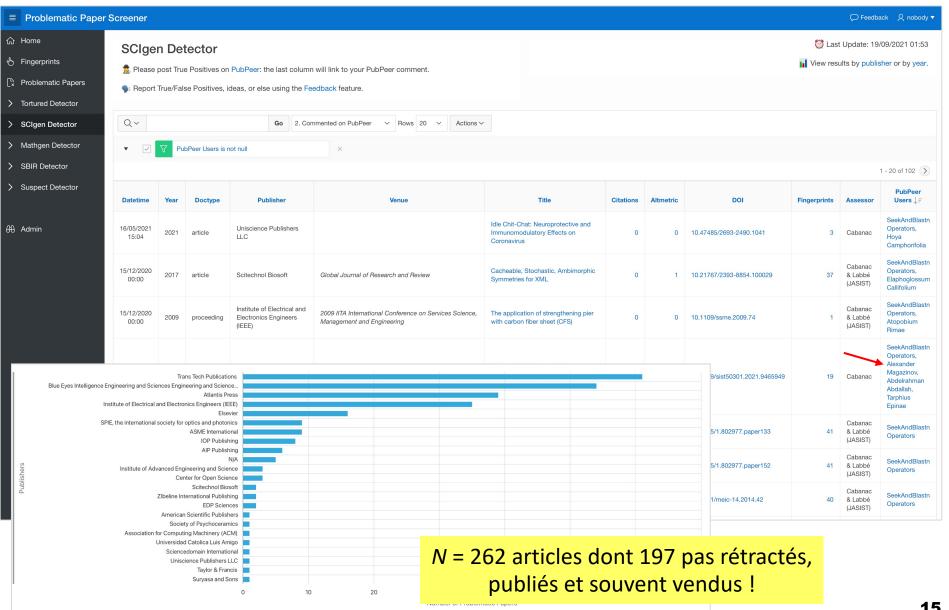
ID	Fingerprint-query			
1	"would agree that, had it not been for" AND "might never have occurred"			
2	"have garnered great interest from both" AND "in the last several years"			
3	"have garnered profound interest from both" AND "in the last several years"		Rech	erche
4	"have garnered tremendous interest from both" AND "in the last several years"			
5	"have garnered limited interest from both" AND "in the last several years"		d'expr	ression
6	"have garnered minimal interest from both" AND "in the last several years"		a chp.	2331311
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"	Opéi	rateur	
15	"methodologies are an interesting new topic in the field of"			
16	"information are an interesting new topic in the field of"	ROC	léen	
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"			
			Conti	nued on next pag

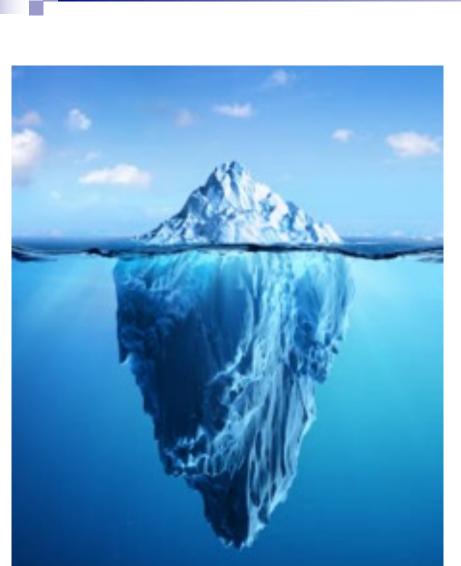




#### **Problematic Paper Screener**

#### https://www.irit.fr/~Guillaume.Cabanac/problematic-paper-screener





# **Modus Operandi**

- 1. Génération algorithmique : SClgen
- 2. Plagiat et expressions torturées
- 3. Peer Review hacking
- 4. Paper mills alias moulins à papier
- 5. Citation hacking



man-made brainpower

artificial intelligence

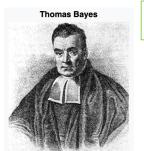
sun oriented force

solar energy

pinnacle flag to clamor proportion (PSNR)

peak signal to noise ratio (PSNR)

credulous Bayes



Naive Bayes



bosom malignancy/peril

breast cancer

Nucleic corrosive enhancement tests (NAAT)

Nucleic acid amplification tests (NAAT)

Extreme intense respiratory disorder

Severe acute respiratory syndrome (SRAS)

#### Notre preprint "Open Call for Investigation"

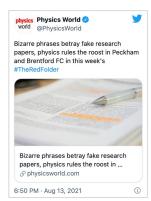
Table 1 Tortured phrases we found in the literature along with their usual, correct wording.

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





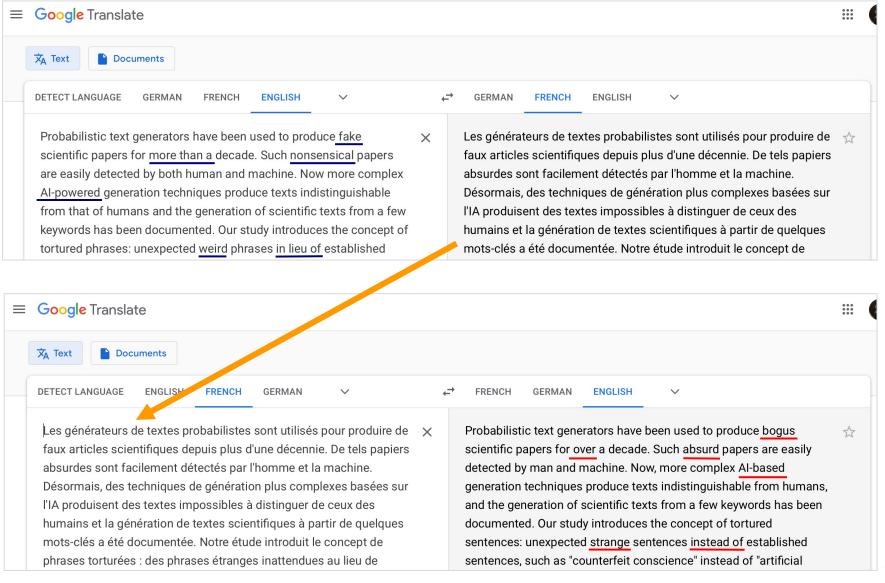






# 1. Traduction automatique

https://translate.google.com



Register Log in

#### Pricing About FAQs API Contact

# 2. Paraphrasage

Article Spinning, Text Rewriting, Content Creation Tool.

Spinbot

https://spinbot.com

#### Here are two paid options:

A paid subscription to use Spinbot.com through your browser.

Rewrite your text all day without the hassle of ads or a captcha.

- 1 Month for \$10.00
- 6 Months for \$50.00 (17% discount)
- 1 Year for \$75.00 (38% discount)
- Purchase Spin Credits For Your Own App / Website (Developers only)

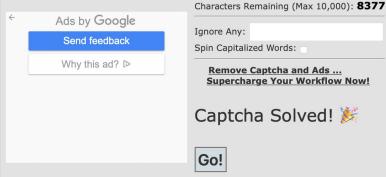
Pay for only the number of spins that you will need for your website or app.

- 1,000 Credits for \$5.00 USD
- 2,000 Credits for \$10.00 USD
- 5,000 Credits for \$20.00 USD (20% discount)
- 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)

Purchase Spin Credits through the <u>developer account management page</u>.

#### Enter Text To Rewrite:

Probabilistic text generators have been <u>used to produce fake scientific</u> papers for <u>more than a decade</u>. Such <u>nonsensical</u> papers are <u>easily</u> 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



#### **Rewritten Text:**

Probabilistic text generators have been <u>utilized to deliver counterfeit logical</u> papers for over 10 years. Such <u>irrational</u> papers are <u>effectively recognized</u> 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 ur

expressions in lieu of set up than 'man-made reasoning, expressions and study one a group. Conjecturing the u awareness' rather for tormented hese concentrated as anguage models we

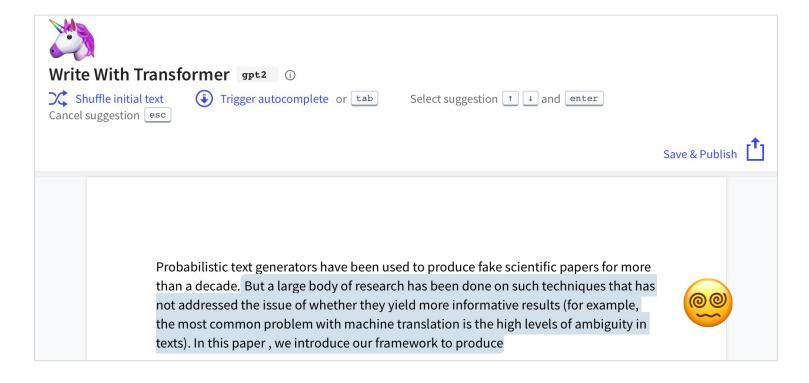
ran a locator on the digests or late articles or this diary and on a few control sets. The pairwise examinations uncover a centralization of edited

Spread the word!

# 3. Génération de texte

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





# OpenAl 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' état de l'art du fainéant

**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 dete	ector score ≥ 70%	Total articles		
	Average GPT detector score (%)	Number of articles	in journal (%)		
J. Alloy. Compd.	92.7	104	5.6	72 1 % dos rásum	ós do Micro Dro
Sci. Total Environ.	93.0	81	3.3	72,1 % des résum	es de <u>ivilciorio</u>
J. Clean Prod.	92.5	76	4.4	1.11.7	2024
Microprocess. Microsyst.	98.6	75	72.1	– publiés ei	า 2021
J. Mol. Struct.	93.3	73	9.5	p 35 3.	
Chem. Eng. J.	90.8	68	4.3	ont un score G	DT do 08 6%
Appl. Surf. Sci.	93.8	64	5.3	ont an score o	F1 ue 30.070
Mater. Lett.	93.5	62	9.8		
Ceram. Int.	91.5	61	4.9		
Sens. Actuator B-Chem.	92.3	48	7.5		
Int. J. Hydrog. Energy	91.4	47	5.0		
Chemosphere	93.6	47	3.6	Real	Fake
J. Colloid Interface Sci.	94.6	46	5.4	0.400/	00.000/
J. Hazard. Mater.	92.9	45	3.7	0.18%	99.82%
J. Mol. Liq.	91.2	45	6.7		
Biochem. Biophys. Res. Commun.	93.4	42	7.9		
n n '	22.1	20	~ .		

# PPS : identifier et signaler les articles problématiques



#### Constituer une communauté

Preprint : Open Call for Investigation

PPS: effet boule de neige avec PubPeer.org



#### Tortured Phrases Detector

■ Problematic Paper Screener

Qv

Media Coverage

Fingerprints

✓ Detectors:

1 Tortured

2 SCIgen3 Mathgen

4 SBIR

? FAQ≥ Admin

5 Suspect6 Seek&Blastn

7 Problematic Cell Lines

All Problematic Papers

Crowdsourcing de d'évaluations post-publication

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.

∨ Rows 20 ∨

Report True/False Positives, ideas, or else using the Feedback feature.

Go 1. Primary Report

Matches with 2+ tortured phrases (e.g., credulous Bayes, counter...

										1 - 20 01 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	Al 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

Actions ~

,	Year	Doctype	Publisher	Venue	Title	Citations	Altmetric	Tips ↓=	Tortured Phrases	Assessor	
2	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	4
2	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	



1 - 20 of 4259

#### Tortured Phrases et detectives sur PubPeer

#### 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):

- 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:

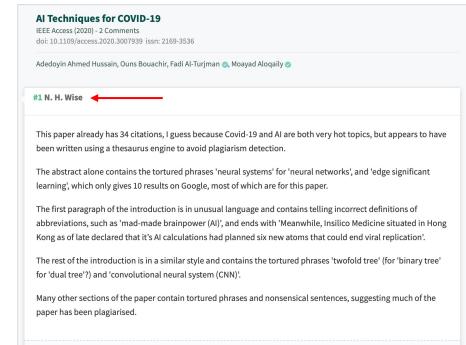
https://commons.wikimedia.org/wiki/File:Microarray\_exp\_horizontal.svg

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, DEAL 2006, LNCS 4224, pp. 1087 – 1094, 2006, DOI: 10.1007/11875581\_129. Here is an example:

tortured

Q

758 results



Given that those who use the PubPeer brower 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.

This paper contains a prime example of thesaurus gone wild: "extreme intense respiratory disorder (SARS)".

#2 Salsola Zygophylla

● report < permalink
</p>

### Focus sur la nanobiologie







https://nanobubbles.hypotheses.org

#### 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 Examples include:

phrases that suggest the use of a thesaurus engine to avoid plagiarism detection.

- '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.

#### **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 egns. 5-10, which might be appropriate in a high school textbook but not an academic

Expressions torturées = indices

D'autres erreurs à identifier!

Expertise métier nécessaire



#### Guillaume Cabanac @gcabanac · 1 Feb

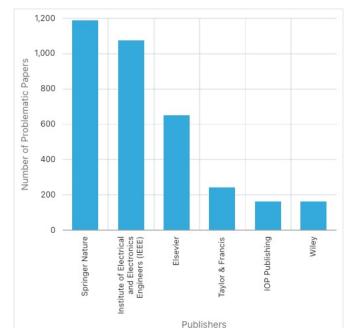
The 'Problematic Paper Screener' flags 5,349 articles as problematic with 7 detectors. They are cited 37k times! Only 1,351 reported on @PubPeer. Let's depollute the scientific literature: 3,021 tortured papers to re-assess irit.fr/~Guillaume.Cab... twitter.com/gcabanac/statu...

3/10 000 articles publiés en 2021 :

- 70 % d'Inde
- 6 % de Chine

Citation count

		1 - 20 o 4225
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 df 3171				
Tortured Phrases	Assessor	PubPeer Users			
brilliant AND keen AND savvy AND shrewd • computerized reasoning • counterfeit neural • figuring asset • k-implies grouping • man- made consciousness • vitality effective • vitality utilization	Invitation for human assessors	-			
brilliant AND keen AND savvy AND shrewd • directing convention • insatiable calculation • keen gadget • malignant hub • organization assault • pernicious hub • steering convention	Invitation for human assessors	27			
computerized reasoning • enhancement calculation AND optimiz* • figuring asset • genuine esteemed • hereditary calculation • molecule swarm • wellness esteem	Invitation for human assessors	_			

Chiffres du 7 février 2022



## 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.

"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



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

"[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

Springer Nature geosciences journal retracts 44 articles filled with gibberish

### "Sunlight as disinfectant"

he 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

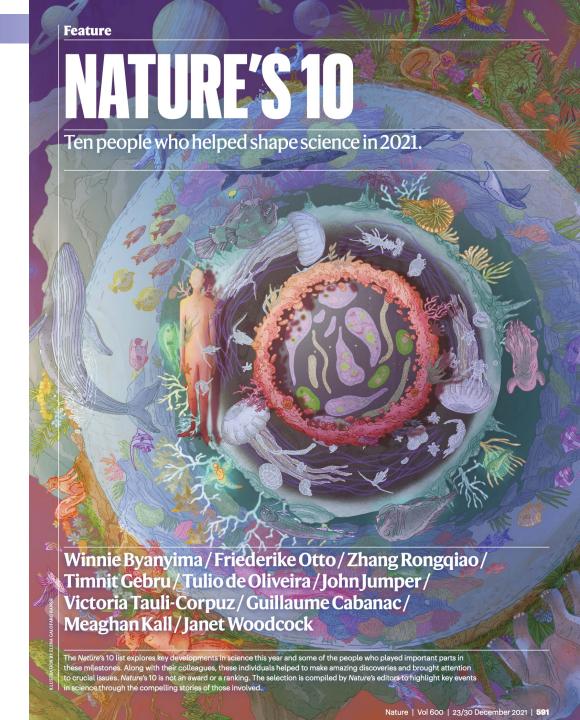
# Guillaume Cabanac Deception sleuth

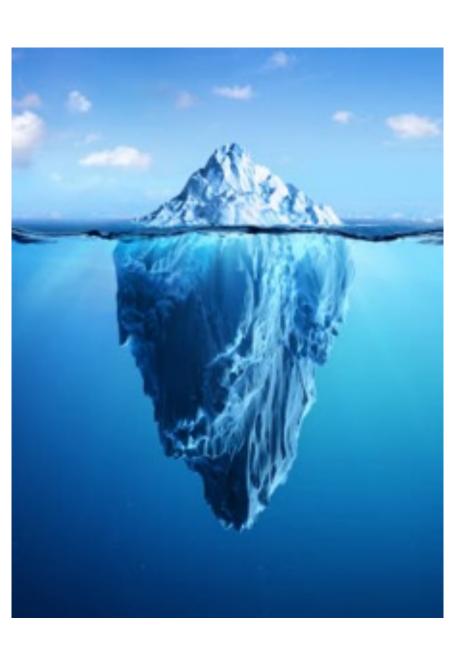
This computer scientist helped to uncover a new kind of fabricated paper.

By Diana Kwon

nderground creepy crawly 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.







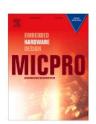
# **Modus Operandi**

- 1. Génération algorithmique : SClgen
- 2. Plagiat et expressions torturées
- 3. Peer Review hacking
- 4. Paper mills alias moulins à papier
- 5. Citation hacking

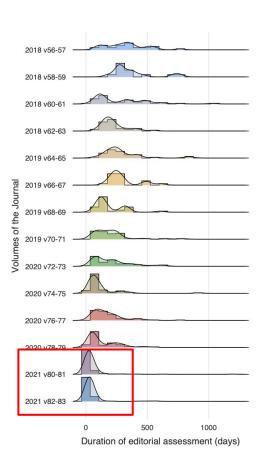
## Cas 1: Microprocessors and Microsystems (Elsevier)

# Signaux faibles de manipulation





⊙ Impact Factor 1.525



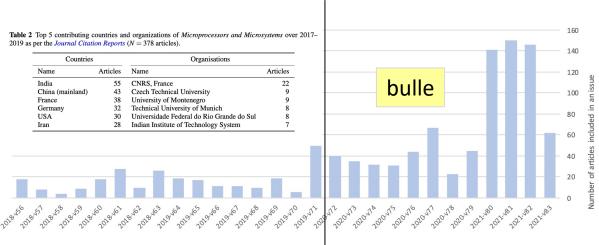
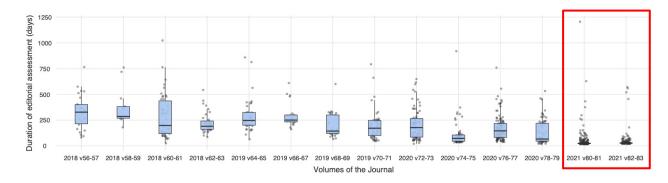


Fig. 2 Number of articles included in the volumes 56–83 of Microprocessors and Microsystems.



**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) show a 186% increase in number of accepted papers and an editorial assessment duration divided by 4 (v80–83, N = 499, Med = 25 days) compared to the volumes of early 2020 (v74–77, N = 174, Med = 108), see Tab. 3.

## Cas 1: Microprocessors and Microsystems (Elsevier)

#### **Retraction Watch**

Tracking retractions as a window into the scientific process

# '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 rig-



Guillaume Cabanac

or of the peer-review processes were investigated and confirmed to fall beneath the high standards expected."

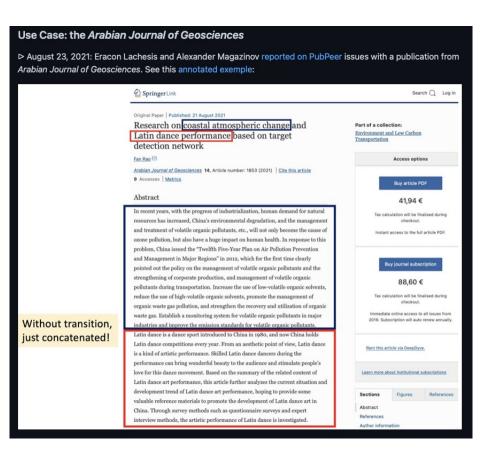
Update, 1140 UTC, 7/21/21: An Elsevier spokesperson gave us this statement:

The Editor in Chief of Microprocessors & Microsystems has serious concerns about the integrity and rigor of the peerreview 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.

## Cas 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



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

#### **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)

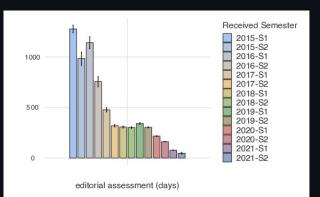
A total of **436** papers in two Springer Nature journals are being subjected to expressions of concern, in the latest case of special issues — in this case, "topical collections" — likely being exploited by rogue editors or impersonators.

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.





# **Modus Operandi**

- 1. Génération algorithmique : SCIgen
- 2. Plagiat et expressions torturées
- 3. Peer Review hacking
- 4. Paper mills alias moulins à papier
- 5. Citation hacking



# 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

**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**

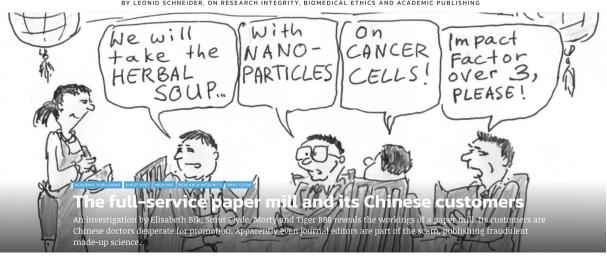
The problem of organized fraud in publishing is not new, and not confined to China, notes Catriona Fennell, who heads publishing services at the world's largest scientific publisher, Elsevier. "We've seen evidence of industrialized cheating from several other countries, including Iran and Russia," she 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 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 Photoshopgenerated 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.





# **Modus Operandi**

- 1. Génération algorithmique : SClgen
- 2. Plagiat et expressions torturées
- 3. Peer Review hacking
- 4. Paper mills alias moulins à papier
- 5. Citation hacking

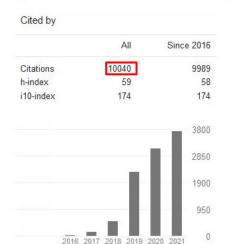
#### Citation hacking

#### #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 then 50 according to google scholar:





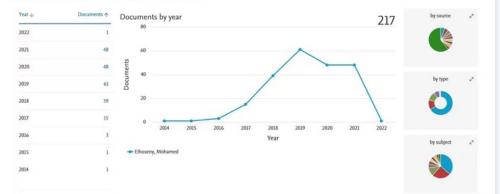
Re #4. M. Elhoseny is part of the 2021 annual list of Highly Cited Researchers™ from Clarivate™ "recognizing influential researchers in the sciences and social sciences from around the world".

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 selfcitation—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."

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.



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:

$$\Delta V_{t+1} = (sSe_i + aAl_i + cCo_i + fFood_i + eEnemy_i) + w\Delta V_t$$
 (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?

#1 Guillaume Cabanac commented February 2022

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

0

#### Citation hacking

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 obta from a collecsecond one and Da (200. for obtaining arguments u new depende ment-depend can relieve tl sults. Xu (2) weighted agg

ei, G. W. (2008a). Maximizing deviati making in intuitionistic fuzzy setting G. W. (2008b). Interval-valued interval-Journal of Information and Computati lei, G. W. (2008c). Induced intuition operator and its application to m Lecture Notes in Artificial Intelligence ei, G. W. (2009a). Uncertain linguisti application to group decision makir International Journal of Uncertainty

/ei, G. W. (2009b). Some geometric agg dynamic multiple attribute decisic International Journal of Uncertainty 17(2), 179-196. G. W. (2010a). GRA method for

incomplete weight information in it Systems, 23(3), 243-247.

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

Rahmad Syah<sup>153</sup>, Mohammad Rezaei<sup>2</sup>, Marischa Elveny<sup>853</sup>, Meysam Majidi Nezhad<sup>4</sup>, Dadan Ramdan<sup>5</sup>, Mehdi Nesaht<sup>653</sup> & Afshin Davarpanah<sup>7</sup>

This aftice was telleded on to February 2022 <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

> | https://doi.org/10.1038/s41598-021-96501-6 nature portfolio 17375

Important of price forecasting. Over the recent years, modern technologies [-s] shows more potential as view of electricity industry relaxation 6-10 which leads to clear market without an extra force 11-26, 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. 53-55. the electricity price forecasting will be more difficult than any other financial markets 56-63. 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.

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

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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!

... ... ...

#### Pollution en science – Conclusion



## Il faut dépolluer la littérature scientifique

Malfaiteurs: faussaires pseudo-auteurs

Mobile: promotion, reconnaissance, capital symbolique

Modus operandi: plagiats, infiltration de revues, achats de citations

Conséquences : pollution de la littérature

érosion de la confiance que la société

place dans la science

Détectives : scientifiques professionnels et amateurs

bénévoles et volontaires

Objectif: → dépolluer la littérature curatif

préventif → anticiper les nouvelles fraudes

Moyen: Ré-évaluation décentralisée soutenue par le

Problematic Paper Screener





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

Des bénévoles nettoient les côtes après la catastrophe du Prestige (2002).

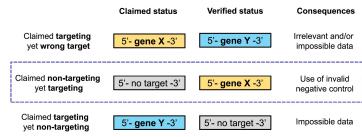
# Crédits indiqués sur les diapos ou ci-dessous :

- Diapo 2: https://www.facebook.com/hyperconsciousness/photos/if-i-have-seen-further-it-is-by-standing-on-the-shoulders-of-giants-isaac-newton/3650241855102416/ https://www.canstockphoto.com/texture-of-old-brick-wall-with-broken-50415102.html
- Diapo 3: https://www.istockphoto.com/fr/photo/trou-dans-le-mur-gm175183459-22041615
- Diapo 4 : https://sciencenorthwest.com/so-how-do-scientists-ensure-honest-and-truthful-results/https://twitter.com/h\_sjastad/status/1207323854873473025
- Diapo 22: https://www.20minutes.fr/monde/2643491-20191104-maree-noire-bresil-pire-venir-avertit-president-jair-bolsonaro

## Errors and frauds in human-genetics papers



doi:10.1007/s11192-021-03871-9



# nature

NEWS 04 August 2021

# Errors in genetic sequences mar hundreds of studies

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



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.