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UNIVERSITAT POMPEU FABRA

The Google Scholar Revolution: opening the academic Pandora's box

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Universidad de Granada

The transformation of scientific communication

From the Gutenberg Galaxy

Le transfert de l'information scientifique et technique : le rôle des nouvelles technologies de l'information face à la crise du modèle actuel de communication écrite

par Emilio Delgado Lopez-Cozar et José Antonio Cordon Garcia

1. Science et communication écrite

La communication écrite est inhérente à la logique interne de la science. Le progrès scientifique est basé sur la tradition accumulative de la science (1), c'est-à-dire, dans le transfert continu des idées et des connaissances entre les scientifiques. Le succès des découvertes, des expériences et des idées de quelques scientifiques par d'autres dans une chaîne sans fin se trouve à la source de la science. Et non seulement dans celle-ci, sinon dans le noyau lui-même du processus créatif tel que nous l'exposent les courants modernes de la critique littéraire ou artistique en général, lorsqu'elles nous parlent de l'inter-subjectivité, ou de la latence de toute une tradition antérieure dans toutes les œuvres nouvelles.

La fixation de l'écriture à un support a rendu possible ce mécanisme générateur de la science. Les moyens de communication écrite, véhicules de transmission de connaissances stables et permanentes dans le temps et l'espace, assurent le développement scientifique. Mikhaliov en vient à affirmer que "la science surgit seulement lorsque apparaît le langage écrit, étant donné que, seule, l'écriture peut garantir une accumulation authentique des connaissances" (2). L'information écrite facilite ce mouvement continu, cette tension dialectique de nature incertaine et provisoire dans laquelle se débat la science.

La science à partir de l'observation de données et de faits, qui sont décrits, sélectionnés et mis en relation afin d'être expliqués moyennant une hypothèse, exige de mettre, en contraste, vérifier et corroborer ces dernières méthodiquement. Le processus réflexif auquel donne lieu la méthode scientifique implique un certain degré d'abstraction des idées qui trouve dans la communication écrite son milieu idéal de diffusion.

2. La science : caractéristiques contemporaines

Nous allons nous consacrer à l'approche des profils actuels de la science. Il s'agit de découvrir ses caractéristiques afin d'obtenir par la suite les nécessités informatives qui découlent de son état actuel.

72 / *Revue de Bibliologie*



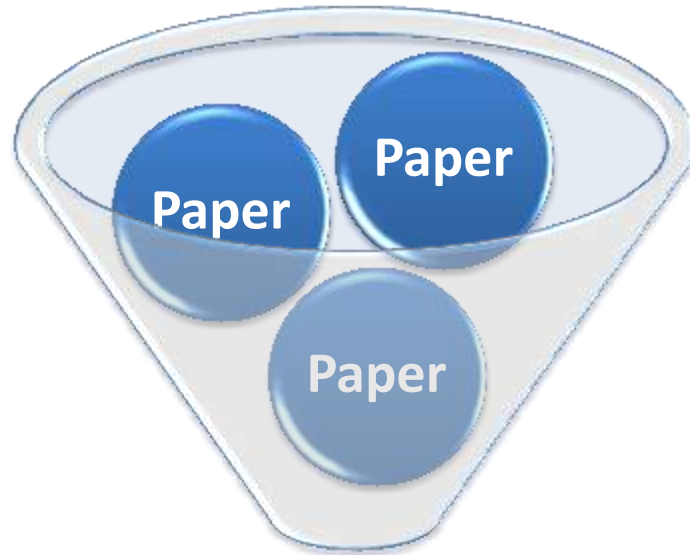
To the Web Galaxy

The power of the Publisher

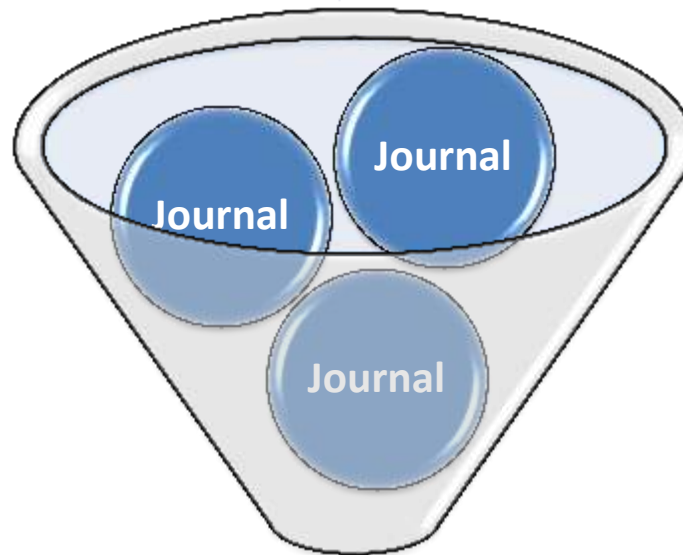


The Gutenberg galaxy

Academic filters



Editors ↓ **Reviewers**



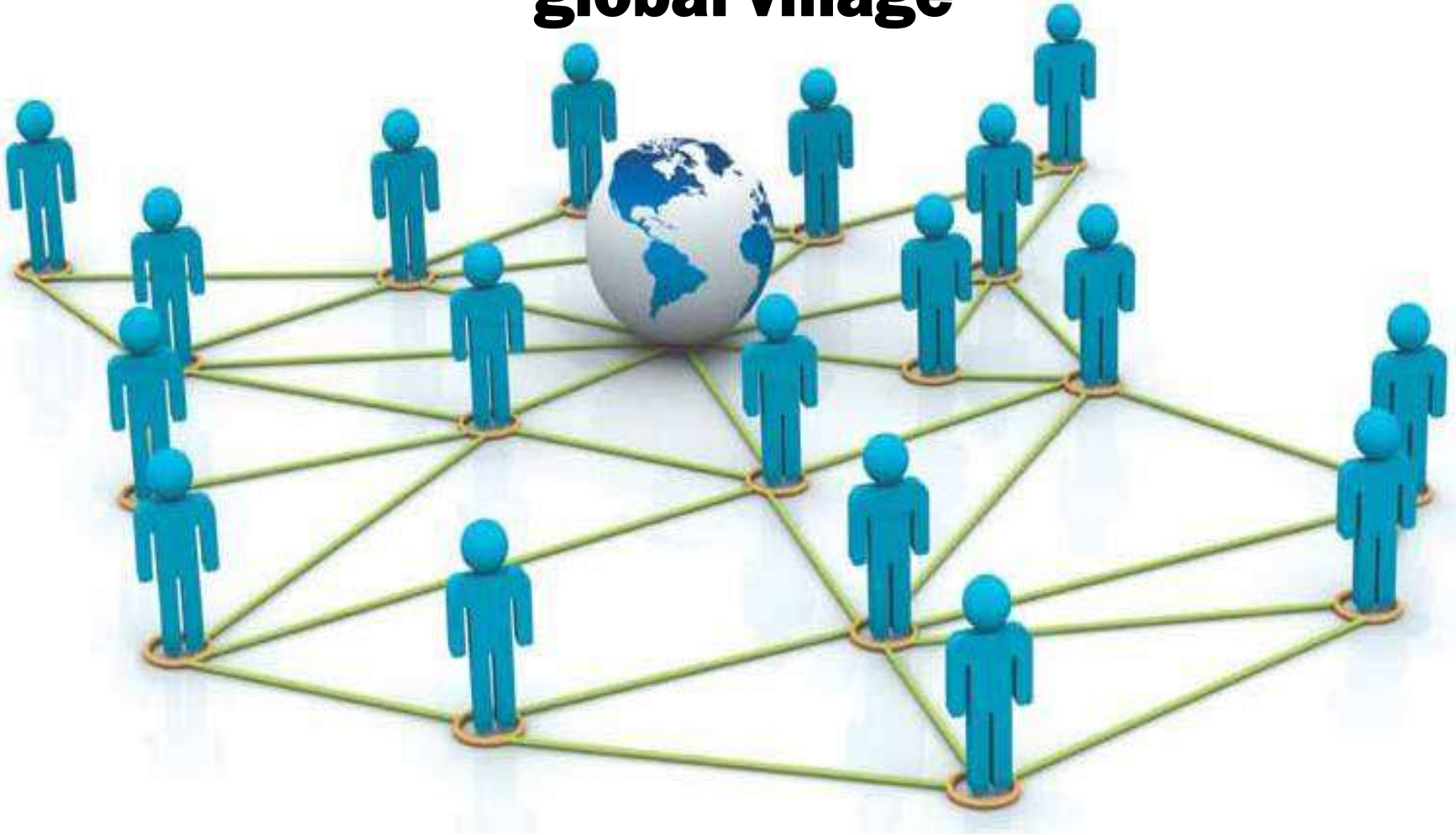
Databases

**Internet gave a voice to those that didn't
have one, and a loudspeaker to those that
already had voice**



The Web Galaxy

It universalized scientific communication, and facilitated the interconnection of scientists: the global village



The Web Galaxy

It enabled the author to control the editing, publishing and dissemination processes of his work



Write

Revise

**Layout
Design**

Distribution

Sales

Dissemination



The web galaxy

From the author to the reader



The Web Galaxy

Authors can know who their audience is

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Google Scholar and the gray literature: A reply to Bonato's review



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Natalie Nobrega

|| 3.62



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|| 6.36 · Calixto García University Hospital



Shukur Neamah Al-aeashi

University Of Kufa

People who cited your work

Cited Article

ResearchGate como fuente de evaluación científica: des...

Cited in:

Copyright compliance and infringement in ResearchGate full-text journa...

Article · January 2017 · Scientometrics



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Charles Sturt University

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It created new venues of communication

Personal & Institutional
Web pages



Topic / Institutional
Repositories
The new containers of scientific
information



Blogs



Video channels




Social Networks



Scientific and professional
Social Networks



A close-up photograph of a silver CD-ROM disc. The disc is partially obscured by a brass padlock that is locked onto its surface. The padlock is positioned on the right side of the disc, with its shackle and body resting on the reflective surface. The background is dark, making the metallic surfaces of the disc and padlock stand out. The text is overlaid on the upper portion of the disc.

**It enabled open access, and the free circulation of
knowledge**

The Web Galaxy

The Google Scholar Revolution

A new ship was needed: one that could sail the new seas of scientific knowledge and would allow researchers to dock in their ports.





Why was it successful?



Simple

Easy

Fast

Easy to understand and use

Universal, international, global

Multilingual

Free

It's the most used academic search engine



TWEETS 226 FOLLOWERS 619 LIKES 3

Edit profile

Google Scholar Digest @GScholarDigest · Jan 3

Google Scholar is the most used platform to search scientific information and set up alerts according to 101innovations.wordpress.com

Google Scholar Digest @GScholarDigest · 23 Dec 2016

“Google Scholar holds a virtual monopoly for finding scholarly content. In all countries bar China, GS is very much the tool of first choice”

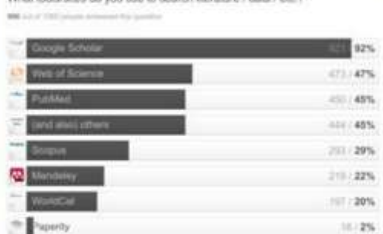
Google Scholar Digest @GScholarDigest · 31 May 2016

Search Engines: The Google-Google Scholar's empire digitalcommons.unl.edu/cgi/viewcontent...

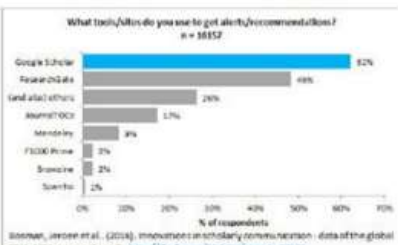
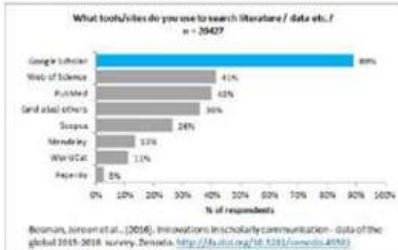
En 2015...



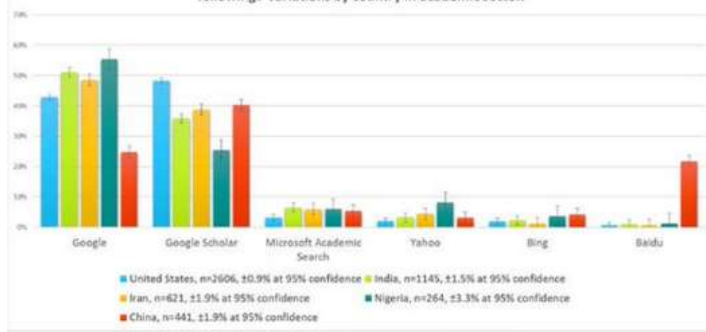
What tools/sites do you use to search literature / data / etc.?



En 2016...



If you use search engines to find journal articles, how often do you use each of the following? Variations by country in academic sector.

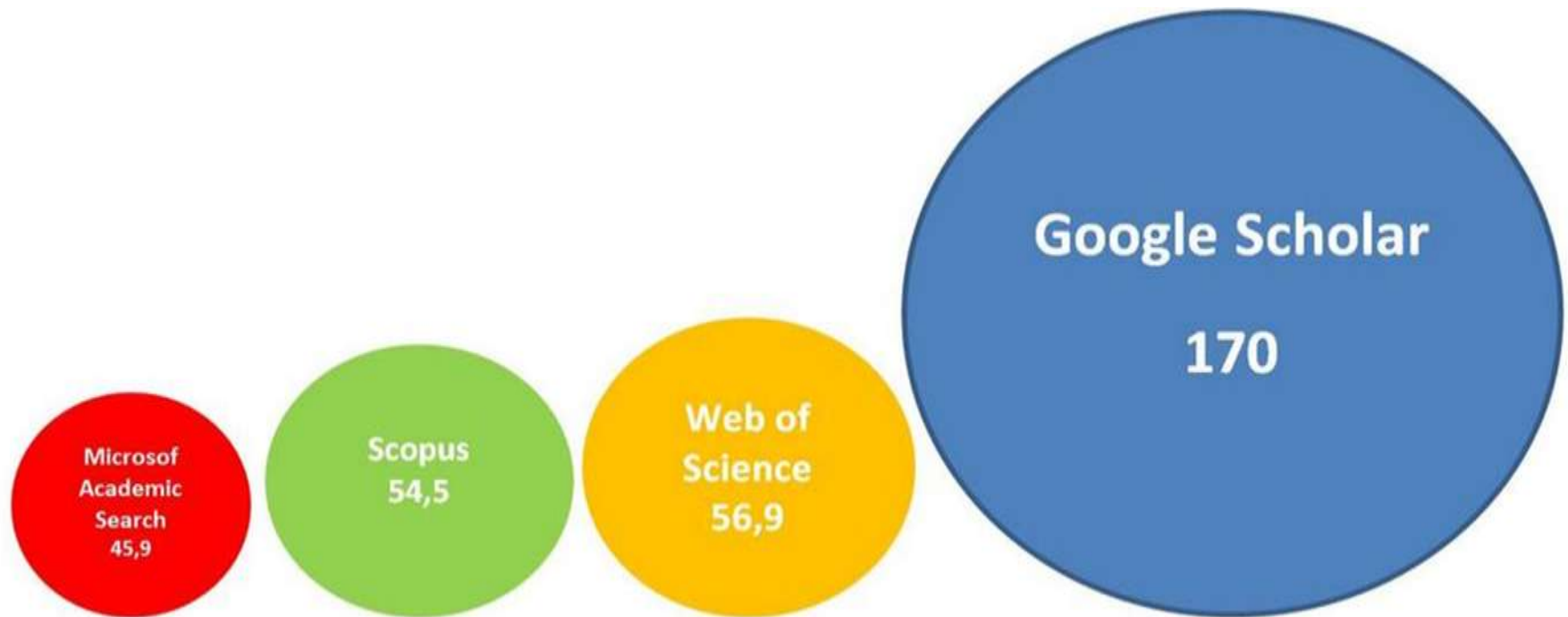


(n=40439) (october-november 2015)

Gardner, T & Inger, S (2016). How Readers Discover Content in Scholarly Publications. Abingdon, Renew Training. ISBN 978-0-9573920-4-5

The search engine with the **largest** coverage

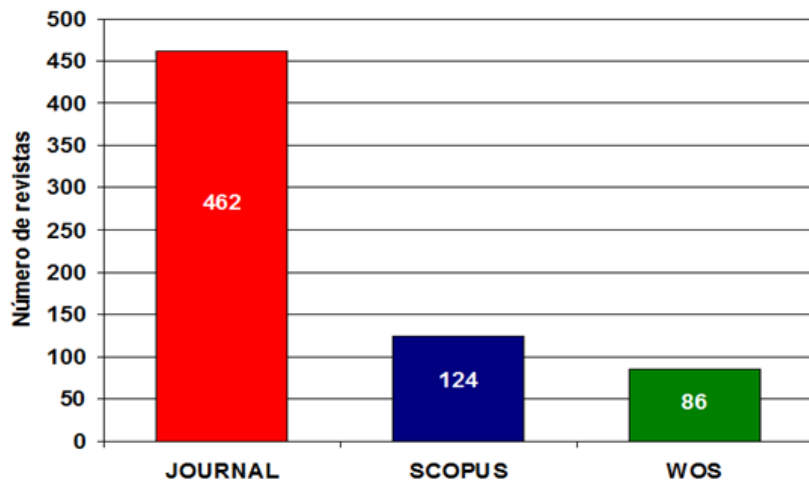
Size matters



Orduña-Malea, E., Ayllón, J. M., Martín-Martín, A., Delgado López-Cózar, E.. (2014). About the size of Google Scholar: playing the numbers. arXiv preprint arXiv:1407.6239. *EC3 Working Papers 18*

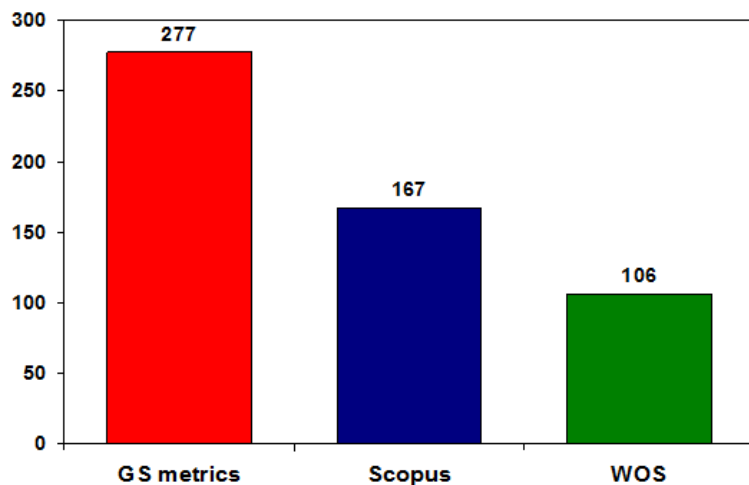
Orduna-Malea, E., Ayllón, J. M., Martín-Martín, A., Delgado López-Cózar, E. Methods for estimating the size of Google Scholar. *Scientometrics* 104 (3), 931-949

Library & Information Science (2011)



Delgado López-Cózar, E.; Orduña Malea, E.; Marcos Cartagena, D.; Jiménez Contreras, E.; Ruiz Pérez, R. (2012). JOURNAL SCHOLAR: Una alternativa internacional, gratuita y de libre acceso para medir el impacto de las revistas de Arte, Humanidades y Ciencias Sociales. EC3 Working Papers 5: 12 de mayo de 2012

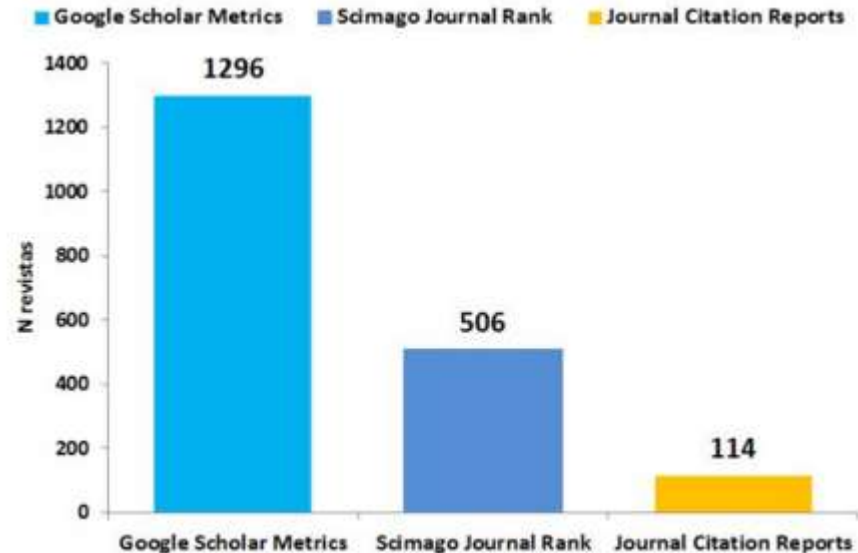
Communications Journals (2012)



Delgado López-Cózar, E.; Repiso Caballero, R. Delgado, E. (2013). The Impact of Scientific Journals of Communication: Comparing Google Scholar Metrics, Web of Science and Scopus. Comunicar, 21(41), 45-52.

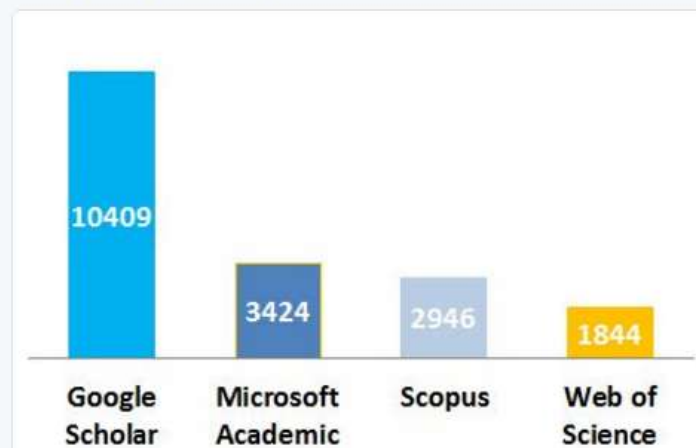
Google Scholar Digest @GScholarDigest · 27 Jul 2016

GSM covers 2.5 times more Spanish journals than SJR and 11 times more than JCR researchgate.net/publication/30...



Google Scholar Digest @GScholarDigest · 13 Jun 2016

Google Scholar: 3 times more citations than Microsoft Academic, 3.5 more than Scopus, & 5.6 more than Web of Science



Microsoft Academic (Search): a Phoenix arisen from the ashes? Anne-Wil Harzing. Scientometrics (in press)

<https://doi.org/10.1007/s11192-016-1844-4>

Emilio Delgado López-Cozar's case

Google Scholar



299 docs
3,179 citations

ResearchGate



253 docs
1,434 citations

Semantic scholar



33 docs
413 citations

Scopus



68 docs
611 citations

Microsoft Academic



156 docs
551 citations

Web of Science

64 docs
428 citations
Core Collection

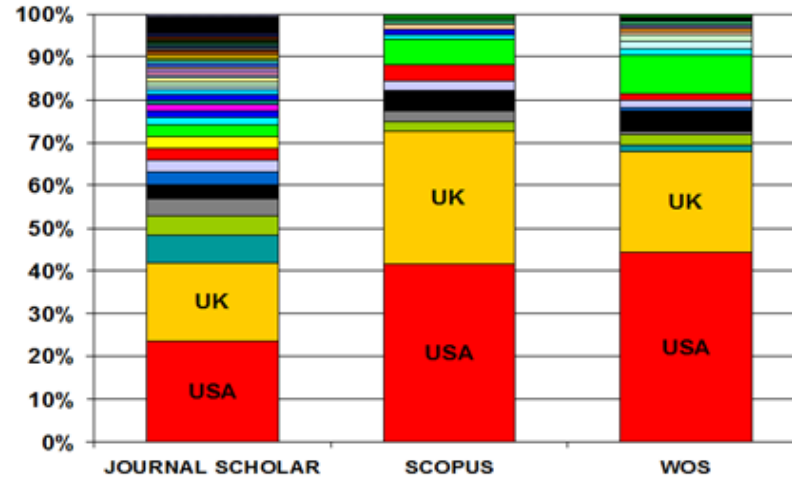
74 docs
479 citations
All Databases

120 docs
833 citations

All Databases Cited References

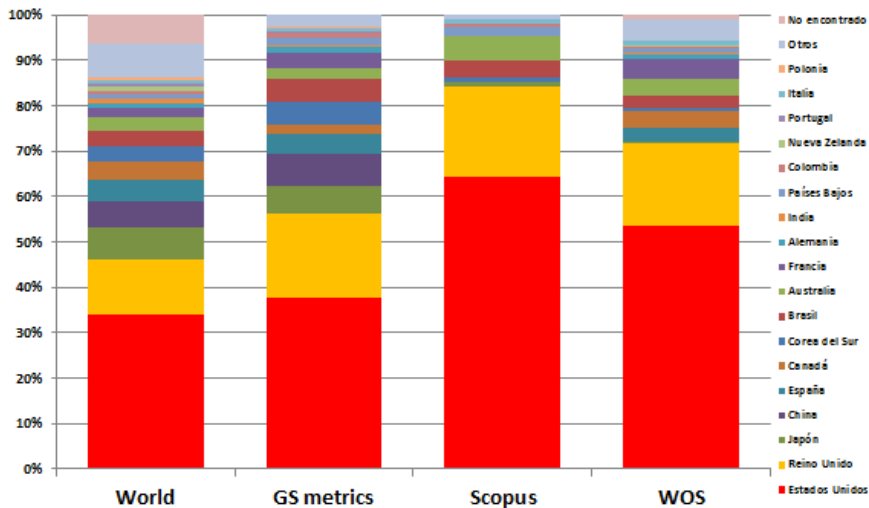
International

Journals Information & Library Science (2011)

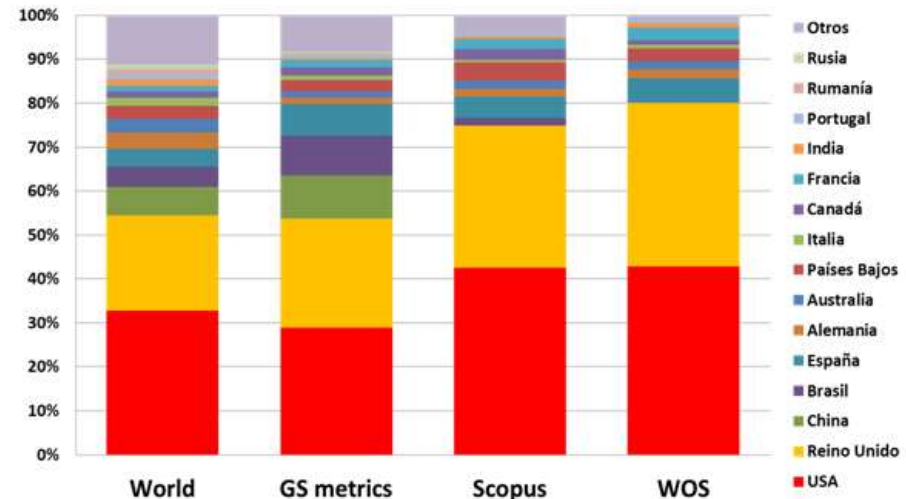


Delgado López-Cózar, E.; Orduña Malea, E.; Marcos Cartagena, D.; Jiménez Contreras, E.; Ruiz Pérez, R. (2012). JOURNAL SCHOLAR: Una alternativa internacional, gratuita y de libre acceso para medir el impacto de las revistas de Arte, Humanidades y Ciencias Sociales. ECS Working Papers 5: 12 de mayo de 2012

Nursing Journals (2012)

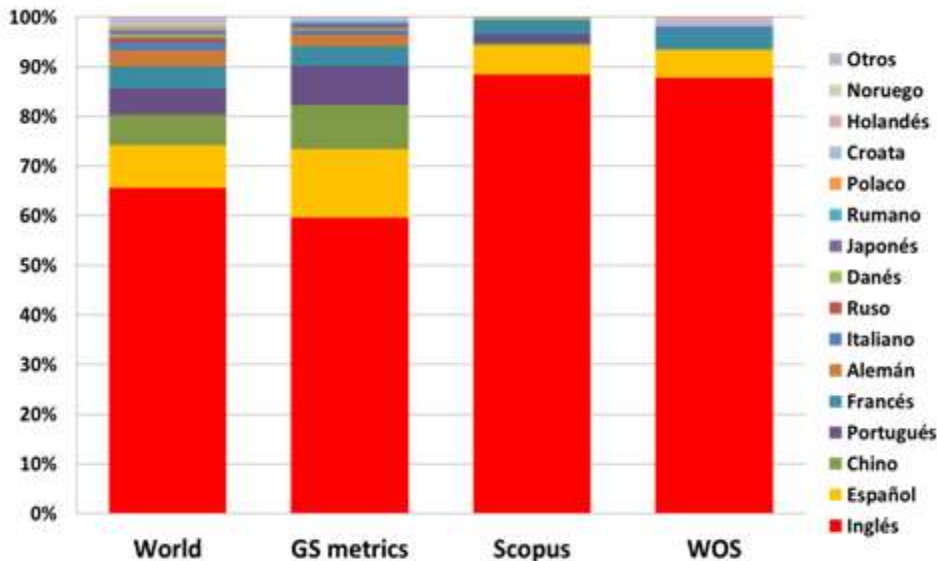


Communications Journals (2012)

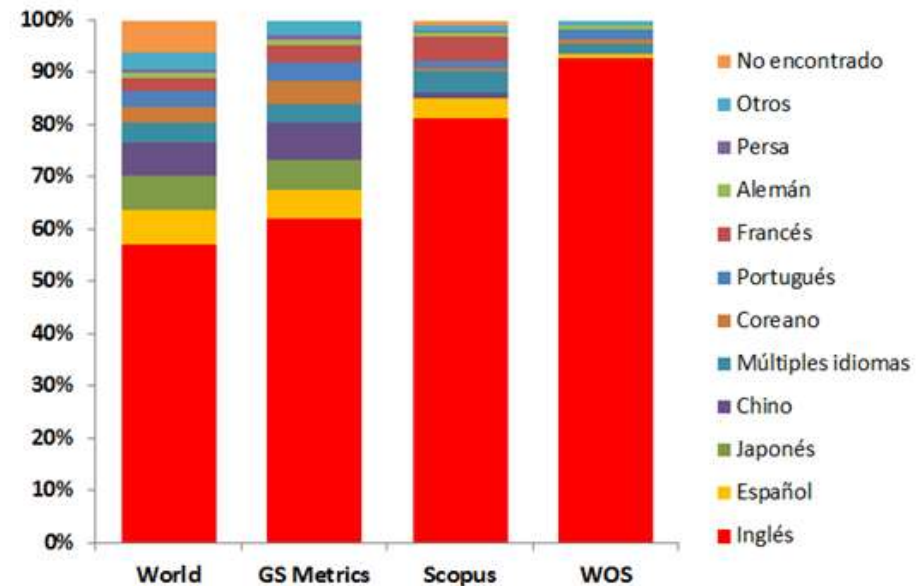


Multilingual

Communications Journals (2012)

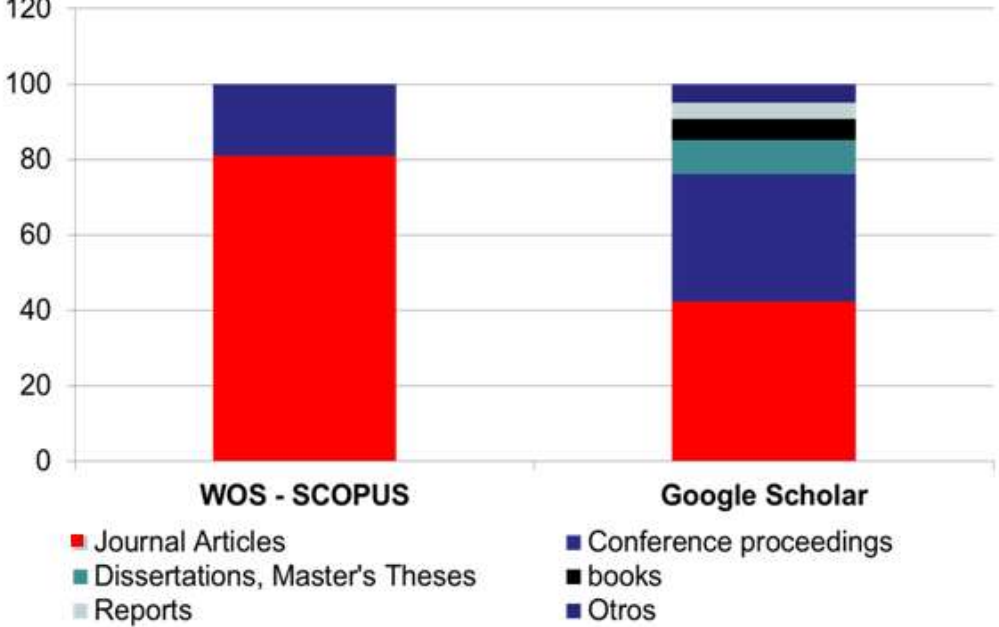


Nursing Journals (2011)



Delgado López-Cózar, E.; Repiso Caballero, R. El impacto de las revistas de Comunicación: comparando Google Scholar Metrics, Web of Science y Scopus. Comunicar, en prensa

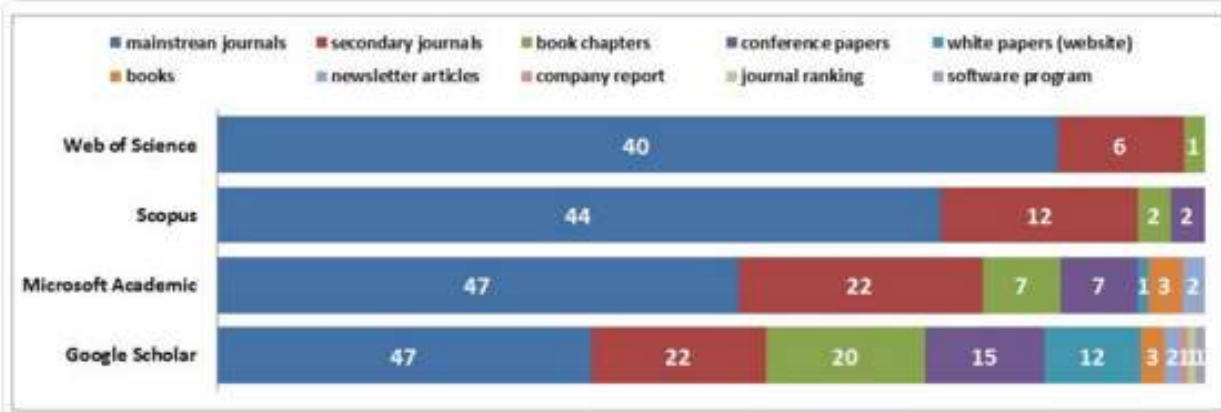
Covers all document typologies



Meho, L. I., & Yang, K. (2007). Impact of data sources on citation counts and rankings of LIS faculty: Web of Science versus Scopus and Google Scholar. *Journal of the American society for information science and technology*, 58(13), 2105-2125.

Google Scholar Digest @G ScholarDigest - 13 Jun 2016

Google Scholar, followed by Microsoft Academic, are the platforms that offer a more varied range of doc types



Microsoft Academic (Search): a Phoenix arisen from the ashes?
Anne-Wil Harzing, Scientometrics (in press)

<https://goo.gl/vci600>

Google Scholar offers a different vision of scientific production

Google Scholar Digest @GScholarDigest · Jan 16
Top 10 most-cited English documents in Google Scholar (1950-2016)

Documents	Nº citations
American Psychiatric Association. (1952). <i>Diagnostic and statistical manual: mental disorders</i>	258,608
Sambrook J, Fritsch EF, Maniatis T. (1982). <i>Molecular cloning: a laboratory manual</i>	250,754
Laemmli UK. (1970). <i>Cleavage of structural proteins during the assembly of the head of bacteriophage T</i>	236,659
Bradford MM. (1976). <i>A rapid and sensitive method for the quantitation of microgram quantities of protein using the principle of protein dye binding</i>	216,043
Lowry OH et al. (1951). <i>Protein measurement with the Folin phenol reagent</i>	198,171
Yin RK. (1984). <i>Case study research: design and methods</i>	139,410
Press WH. (1986). <i>Numerical recipes: the art of scientific computing</i>	120,631
Kuhn TS. (1962). <i>The structure of scientific revolutions</i>	91,109
Abramowitz M, Stegun IA. (1964). <i>Handbook of mathematical functions: with formulas, graphs, and mathematical tables</i>	90,020
Zar JH. (1974). <i>Biostatistical analysis</i>	81,137

Google Scholar Digest @GScholarDigest

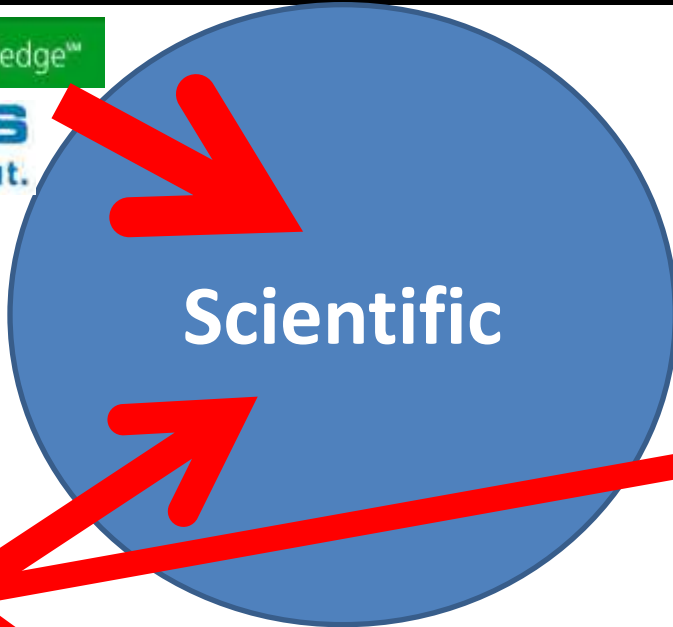
Top 10 most-cited Spanish documents in Google Scholar (1950-2016)

Documents	Nº citations
Hernández R, Fernández C, Baptista P. (2006). <i>Metodología de la investigación</i>	32,555
Freire P. (1997). <i>Pedagogía de la autonomía: saberes necesarios para la práctica educativa</i>	27,848
Freire P. (1970). <i>Pedagogía del oprimido</i>	24,971
Csikszentmihalyi M. (1990). <i>Fluir: una psicología de la felicidad</i>	24,044
Foucault M. (1978). <i>Microfísica del poder</i>	20,894
Deming WE. (1989). <i>Calidad, productividad y competitividad: la salida de la crisis</i>	18,938
Weber M. (1944). <i>Economía y sociedad</i>	16,792
Castells M. (2004). <i>La era de la información: economía, sociedad y cultura</i>	15,233
Real Academia Española. <i>Diccionario de la Lengua Española</i>	13,725
Foucault M. (1970). <i>La arqueología del saber</i>	13,179

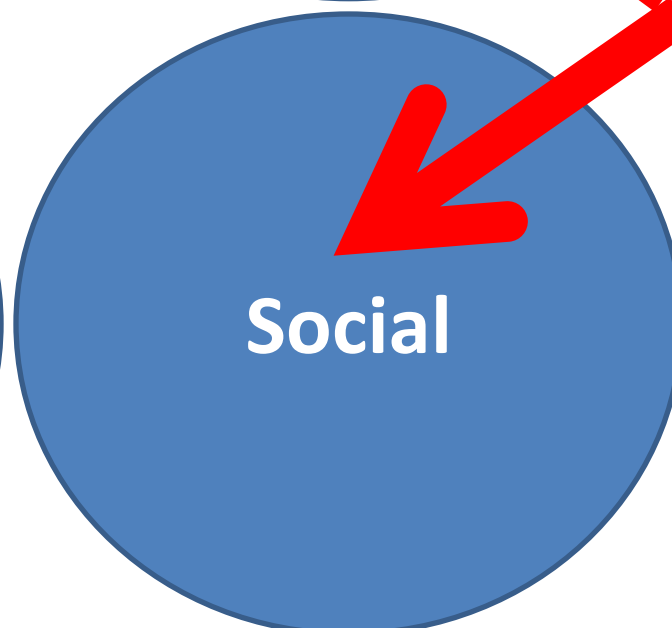
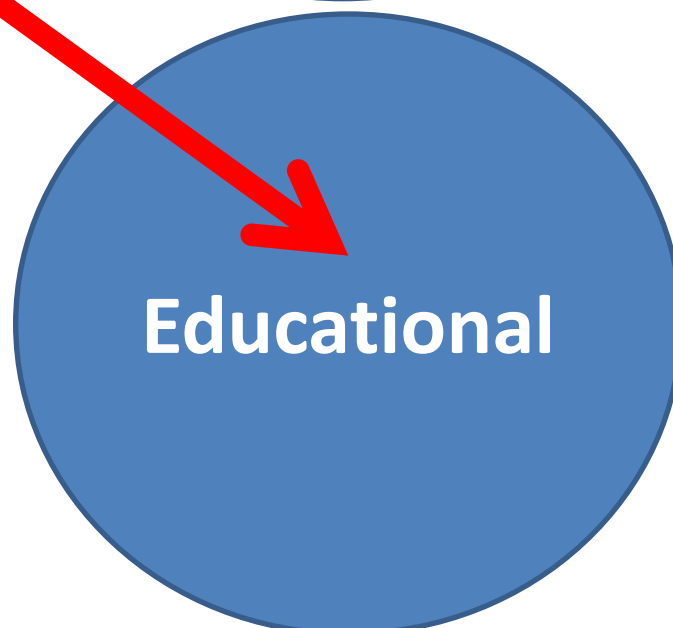
What impact do they measure?



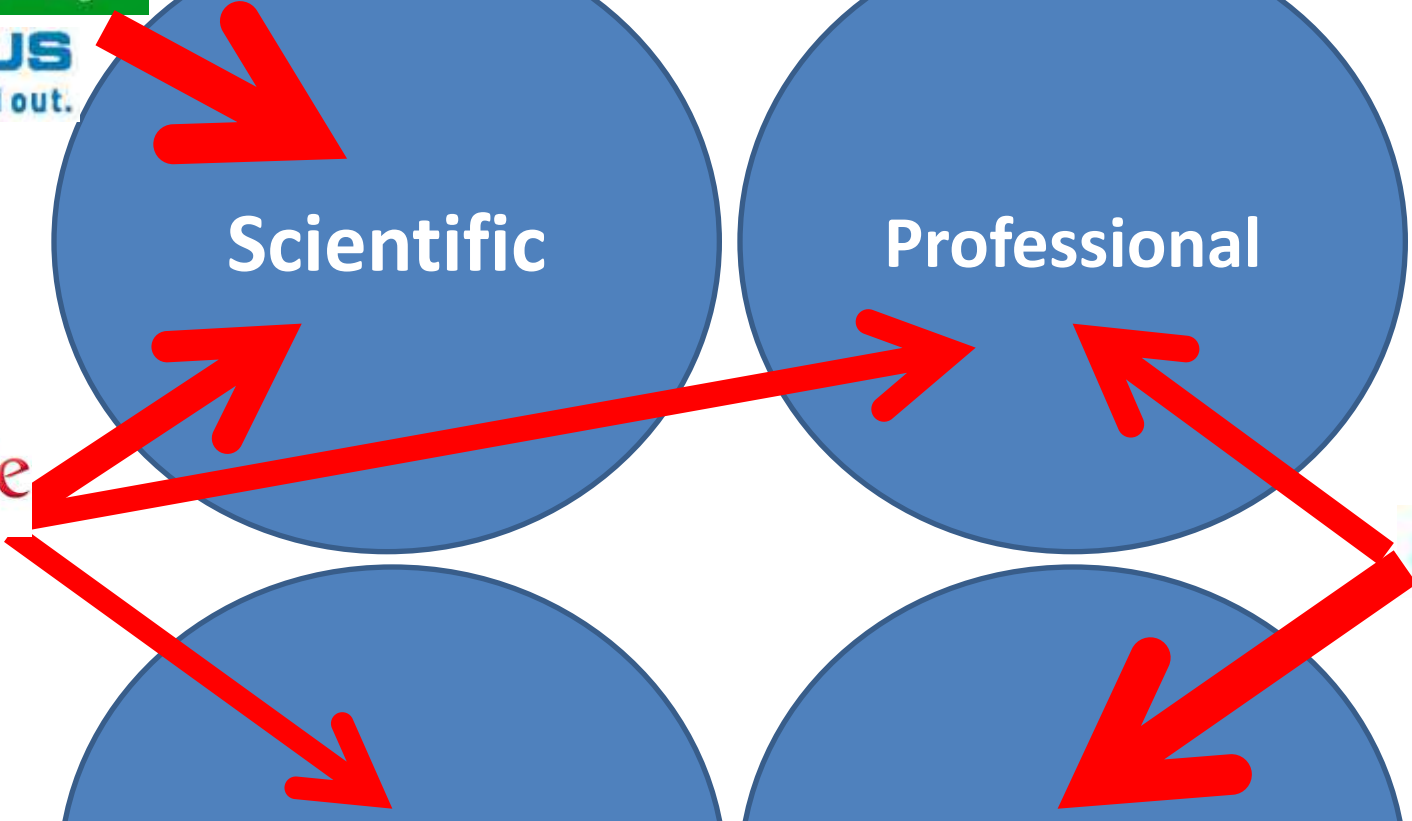
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altmetrics



What impact do they measure?



AUTORES



DOCUMENTOS



REVISTAS



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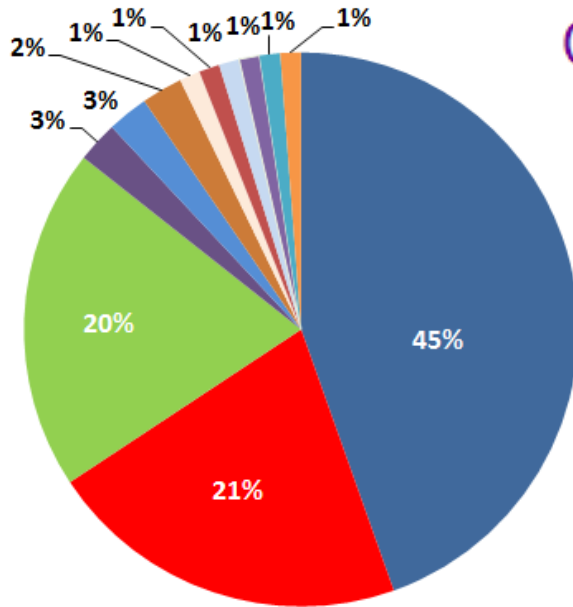


INSTITUCIONES

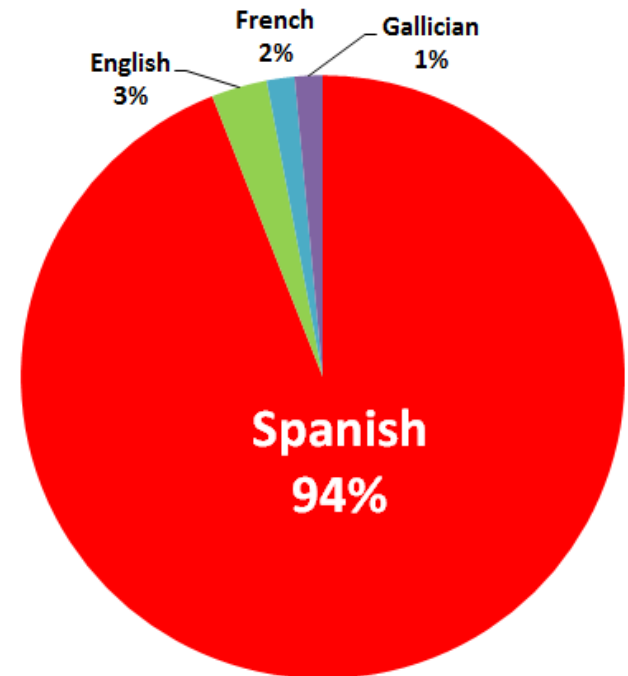
Mostrando autores 1-25 de 336. Ordenados por citas (últimos 5 años), descendientemente.

Nombre	Institución	Últimos 5 años		Totales		Web of Science			ResearchGate	
		Citas	Índice H	Citas	Índice H	Docs.	Citas	Índice H	RG Score	Impact Points
Félix de Moya Anegón	CSIC	2933	26	4722	34	117	998	16	35,3	162,0
Ismael Rafols	CSIC/UPV/SPRU	2029	21	2509	24	39	1141	17	26,8	74,7
Emilio Delgado López-Cózar	UGR	1585	20	1933	23	53	318	9	30,8	174,1
Rafael Aleixandre-Benavent	CSIC/UV	1239	15	2064	21	93	289	10	33,6	148,3
Victor Herrero-Solana	UGR	1224	15	2357	23	28	210	6	24,1	38,9
Isidro F. Aguillo	CSIC	1212	16	1919	23	62	381	11	29,7	123,4
Daniel Torres-Salinas	UGR	1086	16	1165	20	46	165	8	-	-
Evaristo Jimenez-Contreras	UGR	1063	16	1466	21	48	338	9	-	-
Zaida Chinchilla-Rodríguez	CSIC	937	15	1491	21	31	190	7	33,2	56,6
Vicente Pablo Guerrero Bote	UNEX	893	16	1291	21	38	389	12	26,7	64,8
Benjamín Vargas-Quesada	UGR	837	14	1427	19	29	206	7	27,9	62,6
José Luis Ortega	CSIC	804	14	1052	15	42	277	9	26,0	62,0
Rodrigo Costas	CWTS	777	16	891	16	29	325	10	23,7	49,0
José Antonio Cordón García	USAL	774	14	1075	16	16	14	2	14,5	7,8
Yusef Hassan Montero	SCImago Lab	692	13	1168	16	6	24	3	-	-
Rafael Ruiz-Perez	UGR	625	12	770	14	20	151	6	22,3	101,0
Lluís Codina	UPF	622	13	1403	20	27	41	4	16,4	13,6
Ernest Abadal	UB	542	12	943	16	24	47	3	15,2	12,2
María Pinto Molina	UGR	533	13	1125	18	49	181	8	25,9	48,3
Julio Alonso Arevalo	USAL	529	13	676	15	9	5	1	10,3	2,3
Elena Corera-Álvarez	CSIC	517	11	876	12	8	119	4	21,5	21,8
José Antonio Gómez-Hernández	UM	497	11	1003	17	7	5	1	4,4	0,7
Adolfo Alonso-Arroyo	UV	484	12	589	14	40	118	6	30,8	108,2
Elias Sanz-Casado	UC3M	479	10	958	15	38	80	5	22,9	38,2
José Antonio Merlo Vega	USAL	437	11	959	17	6	9	2	7,4	4,3

A professional journal in Google Scholar



Cited by



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- Proceeding, Workshop, meeting
- Thesis (undergraduate, master, doctoral)
- Reports
- Preprints
- Syllabus
- Yearbook
- Bibliography
- Conferencia
- Book

Opening the academic Pandora's Box



JOURNALS



PUBLISHERS



AUTHORS



DOCUMENTS



EMILIO DELGADO LÓPEZ-CÓZAR is a Professor of research methodology at the University of Granada, and cofounder of the EC3 Research Group (Science and Scientific Communication Evaluation). He has developed a number of tools for scientific evaluation, including IN-RECS, IN-RECJ, IN-RECH (impact factor of Spanish journals in the Social Sciences, Legal Sciences, and Humanities), the I-UGR Ranking of Spanish universities, RESH (Spanish Journals in the Social Sciences, an... [See More](#)



ALBERTO MARTÍN-MARTÍN is an FPU (University Professor Training) Research Fellow and PhD Candidate in the field of bibliometrics and scientific communication at the University of Granada. His earlier degrees in Library and Information Science are from the same university, where he graduated with honours. He is currently a member of the EC3 Research Group, where he has collaborated in various research projects, technical reports and journal articles since 2013.



ENRIQUE ORDUÑA-MALEA holds a PhD in Documentation from the Polytechnic University of Valencia, where he currently works as a postdoctoral researcher. He belongs to the EC3 Research Group at UGR and Trademetrics Research Group at UPV. He specialises in web metric methods applied to the processes of creation, diffusion and consumption of content and products on the web, both in academic and industrial environments.



JUAN MANUEL AYLLÓN MILLÁN is an FPI (Predoctoral Research Grant) Research Fellow and a PhD Candidate in the field of bibliometrics and scientific communication at the University of Granada. His earlier degrees in Library and Information Science are from the same university. He is also a member of the EC3 Research Group.

What have we analyzed?

Journals

Autores

Editoriales

JOURNAL SCHOLAR
METRICS
ARTS, HUMANITIES AND SOCIAL SCIENCES



Publishers
Scholar Metrics



Índice H de las revistas científicas españolas según Google Scholar Metrics

Multifaceted model



AUTHORS



DOCUMENTS



JOURNALS



PUBLISHERS



INSTITUTIONS

Library & Information Sciences (Spain)

<http://www.biblioteconomia-documentacion-española.infoec3.es>

Bibliometrics & Scientometrics (International)

<http://www.scholar-mirrors.infoec3.es>



JOURNAL SCHOLAR METRICS

ARTS, HUMANITIES, AND SOCIAL SCIENCES



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[METHODOLOGY](#)

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[FAQ](#)

SUBJECT CATEGORY RANKINGS

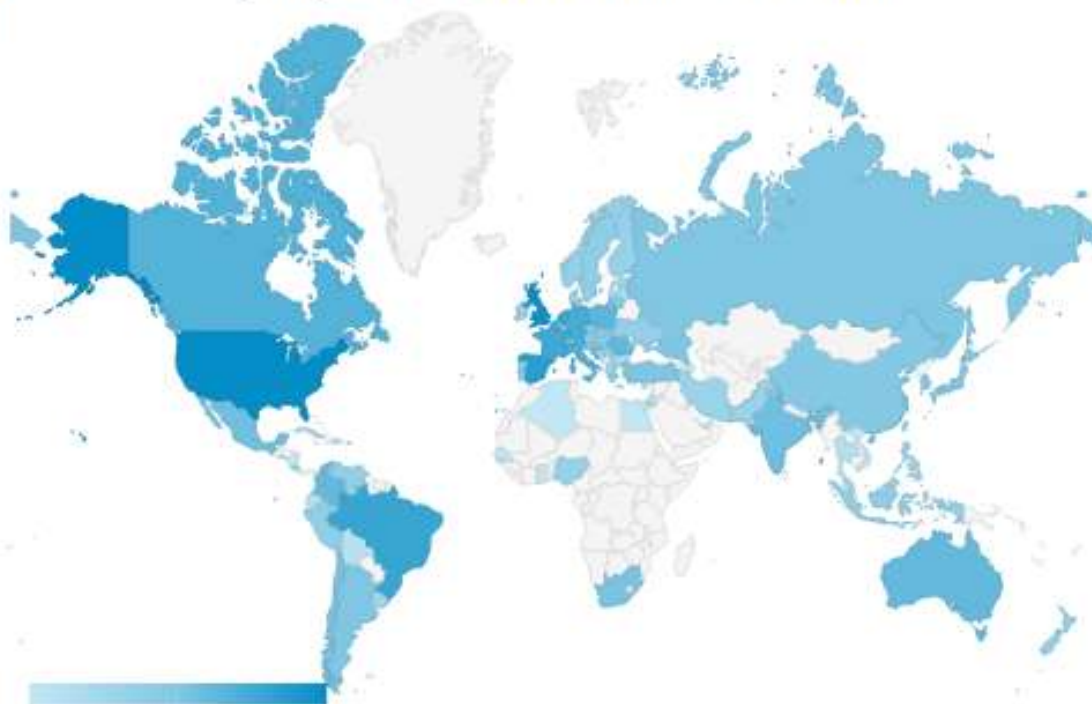
SOCIAL SCIENCES

ANTHROPOLOGY	(298)
COMMUNICATION	(320)
BUSINESS, ECONOMICS & MANAGEMENT	(1761)
EDUCATION	(1126)
GEOGRAPHY & URBAN STUDIES	(548)
LAW	(920)
LIBRARY & INFORMATION SCIENCE	(277)
POLITICAL SCIENCE, ADMINISTRATION & INTERNATIONAL RELATIONS	(1074)
PSYCHOLOGY	(1032)
SOCIOLOGY	(1007)
MULTIDISCIPLINARY	(202)
SOCIAL WORK	(132)
SPORT SCIENCES	(213)

ARTS & HUMANITIES

COUNTRY RANKINGS

WORLD -> AFRICA EUROPE AMERICAS ASIA OCEANIA





JOURNAL SCHOLAR METRICS

ARTS, HUMANITIES, AND SOCIAL SCIENCES

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COMMUNICATION

Displaying core journals 1-20 of 296. Sorted by H5-Index, decreasingly.

 Check to display related journals as well

Filter by country ▾

Rank	Country	Journal name	Totals			Without journal self-citations			
			Quartile	H5-Index	H5-Median	H Citations	H5-Index	H Citations	%
1		New Media & Society	Q1	<u>54</u>	83	5984	51	5800	
2		Journal of Communication	Q1	<u>40</u>	74	3733	39	3631	
3		Journal of Health Communication	Q1	<u>38</u>	52	2248	35	2052	
4		Information, Communication & Society	Q1	<u>34</u>	56	2902	32	2777	
5		Public Relations Review	Q1	<u>34</u>	55	2559	32	2355	
6		Public Opinion Quarterly	Q1	<u>34</u>	50	2395	32	2293	
7		Telecommunications Policy	Q1	<u>34</u>	44	1907	30	1842	
8		Communication Research	Q1	<u>33</u>	59	2191	33	2142	
9		Journal of Computer-mediated Communication	Q1	<u>32</u>	53	2198	32	2164	
10		Historical Journal of Film, Radio and Television	Q1	<u>32</u>	48	1780	32	1769	
11		Public Understanding of Science	Q1	<u>32</u>	46	1677	31	1551	
12		First Monday	Q1	<u>31</u>	65	2430	31	2375	
13		Journal of Social and Personal Relationships	Q1	<u>30</u>	37	1258	30	1253	
14		International Journal of Communication	Q1	<u>29</u>	47	2157	28	2094	
15		Media, Culture & Society	Q1	<u>29</u>	40	1376	29	1339	
16		Journalism	Q1	<u>28</u>	40	1402	27	1340	
17		The International Journal of Press/politics	Q1	<u>26</u>	47	1374	26	1333	
18		Human Communication Research	Q1	<u>26</u>	41	1319	26	1267	
19		Journalism Studies	Q1	<u>25</u>	54	1543	25	1466	
20		Journalism Practice	Q1	<u>24</u>	43	1608	23	1512	

[First](#) | [Previous](#) | [Next](#) | [Last](#)

Journal Scholar Metrics Indicators

H Index of documents published in the last 5 years

Median of citation counts for articles published in last 5 years

Sum of citations for articles above h5-index threshold

Total

Without journal self-citations

Quartile

H5-Index

H5-Median

H Citations

H5-Index

H Citations

%

Q1

56

80

6272

53

5833



Extracted directly from Google Scholar Metrics

Computed using the article and citation data available in Google Scholar Metrics

We question ourselves

Drawbacks



Errors in the data Enough quality?



± 10%?

Large units of analysis: no problem
Individuals: check data first

Even with «dirty» data,
it measures more and
better



Biggest danger: manipulation



Delgado López-Cózar, E., Robinson-García, N., Torres-Salinas, D. (2014). The Google Scholar experiment: How to index false papers and manipulate bibliometric indicators. *Journal of the Association for Information Science and Technology*, 65(3), 446-454.

The Googledependency

◀ Goooooooooooooole ▶

Anterior

91929394959697**98**99100

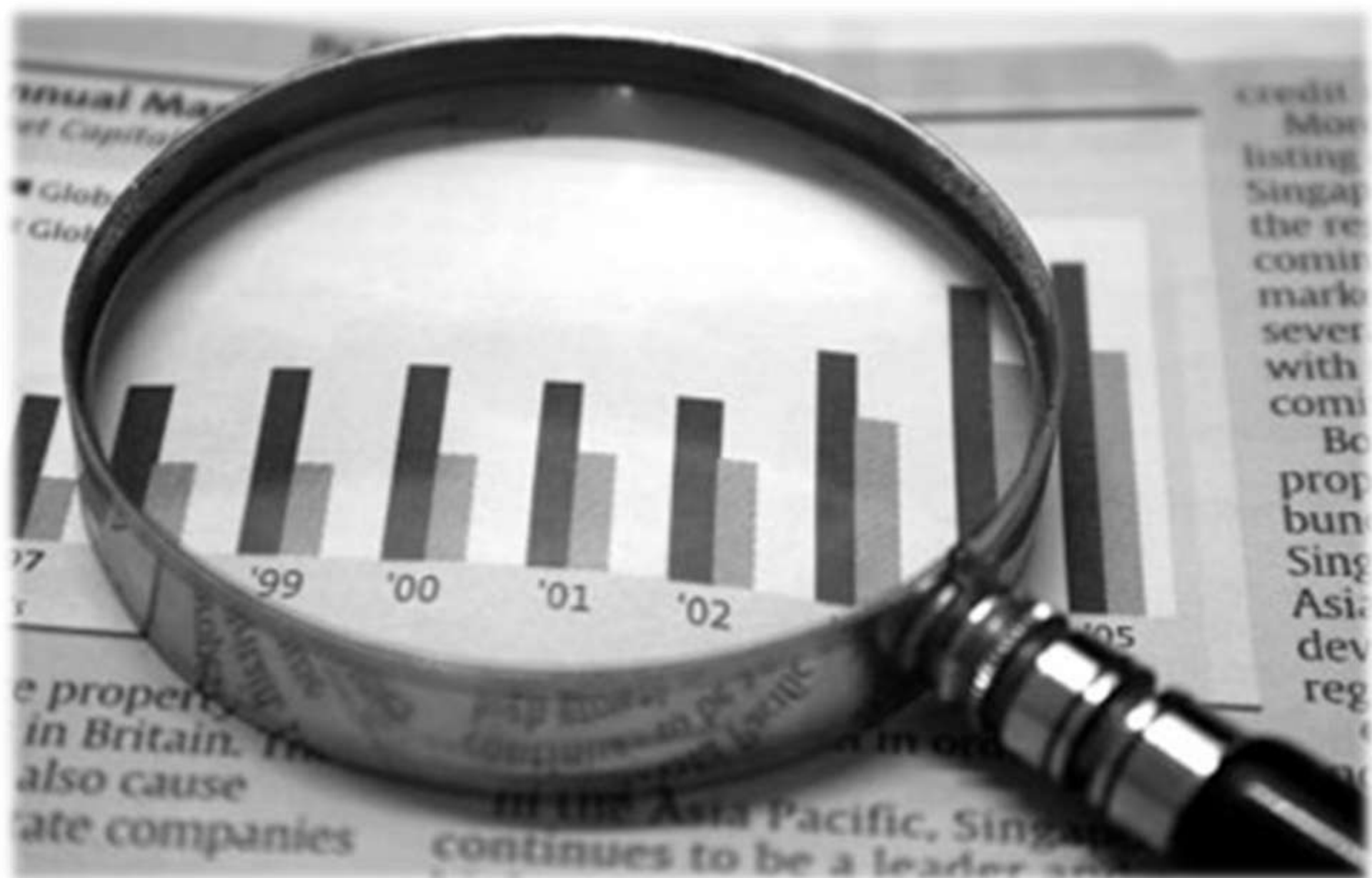
Siguiente

Académico

Página 100 de 24.700 resultados (0,22 s)



Lack of transparency





It spreads light where there was darkness

An alternative model of publication and communication?



The green route

arXiv.org



DIGITUM



ResearchGate



Deposit in a repository

Publish



Google

Google scholar

Document indexed in
Google &
Google Scholar

Disseminate

Disseminate in
academic Social
Networks



Disseminate in blogs,
social networks



Sharing, social reading, asking, answering,
commenting, analyze, rate

Collaborate

Where is the quality control and the certification? Who carries out the evaluation?

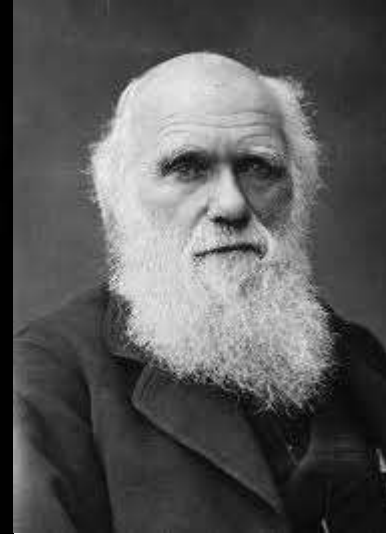


*From ex ante evaluation
Speak referee, speak*



*To ex-post evaluation
Speak people, speak*

«Documentary Darwinism»



Research evaluation

A determining factor for academic communication practices

Nature **417**, 898 (27 June 2002) | doi:10.1038/417898b

2002

Impact-factor rewards affect Spanish research

Evaristo Jiménez-Contreras¹, Emilio Delgado López-Cózar¹, Rafael Ruiz-Pérez¹ & Víctor M. Fernández²

thebmj Research • Education • News & Views • Campaigns • Archive • For authors • Jobs • Home • Search

Feature **2007**

How impact factors changed medical publishing—and science

BMJ 2007;334:doi:10.1136/bmj.334.7694.454066-AD (Published 15 March 2007)
Cite this as: BMJ 2007;334:561

Article • Related content • Article metrics • Rapid responses • Research

Impact of the impact factor in Spain

Spanish researchers have observed with interest and no little irony the debate on the virtues and vices of the impact factor and its potential use in the UK Research Assessment Exercises beginning in 2006. Perhaps Spain is not so different from other European countries, since the same debate took place in our country more than 15 years ago.

30 April 2007

Emilio Delgado López-Cózar
Associate Professor
Rafael Ruiz-Pérez, Evaristo Jiménez-Contreras
Departamento de Bibliotecología y Documentación,
Universidad de Granada, Granada 18071, Spain

The Metric Tide

2015

Literature Review

Paul Wouters*, Mike Thelwall**, Kayvan Kousha**, Ludo Waltman*, Sarah de Rijcke*, Alex Rushforth*, and Thomas Franssen*

July 2015

From Bibliometrics

Evaluation of a few, by a few, for a few

To Webometrics - Altmetrics

***Popularization and democratization of
scientific evaluation***

**Evaluation of all, by all, for all, of everything, all
the time, everywhere**

**In Bibliometrics,
Journals are the epicentre of evaluation**

***Journal Impact Factor:*
The gold standard of scientific
evaluation**

Journal Rankings



ALLMETRICS

Webometrics y Altmetrics

**EVERYTHIN CAN BE
COUNTED**



Documents are **stored** and **used** on the Web:

- **Linked**
- **Visited**
- **Visualized**
- **Downloaded**
- **Tagged**
- **Mentioned**
- **Commented**
- **Reviewed**
- **Rated**
- **Followed**
- **Cited (Google scholar)**

From the digital fingerprint to the digital identity

New academic mirrors

The rulers of the new Bibliometrics: multiple and varied indicators from multiple sources

New metrics



Scholar Mirrors

Bibliometrics, Scientometrics, Informetrics, Webometrics, and Altimetrics
in Google Scholar Citations, ResearcherID, Researchgate, Mendeley, and Twitter



HOME

ABOUT

METHODOLOGY

OUR TEAM

OTHER PROJECTS



AUTHORS



DOCUMENTS



JOURNALS



PUBLISHERS

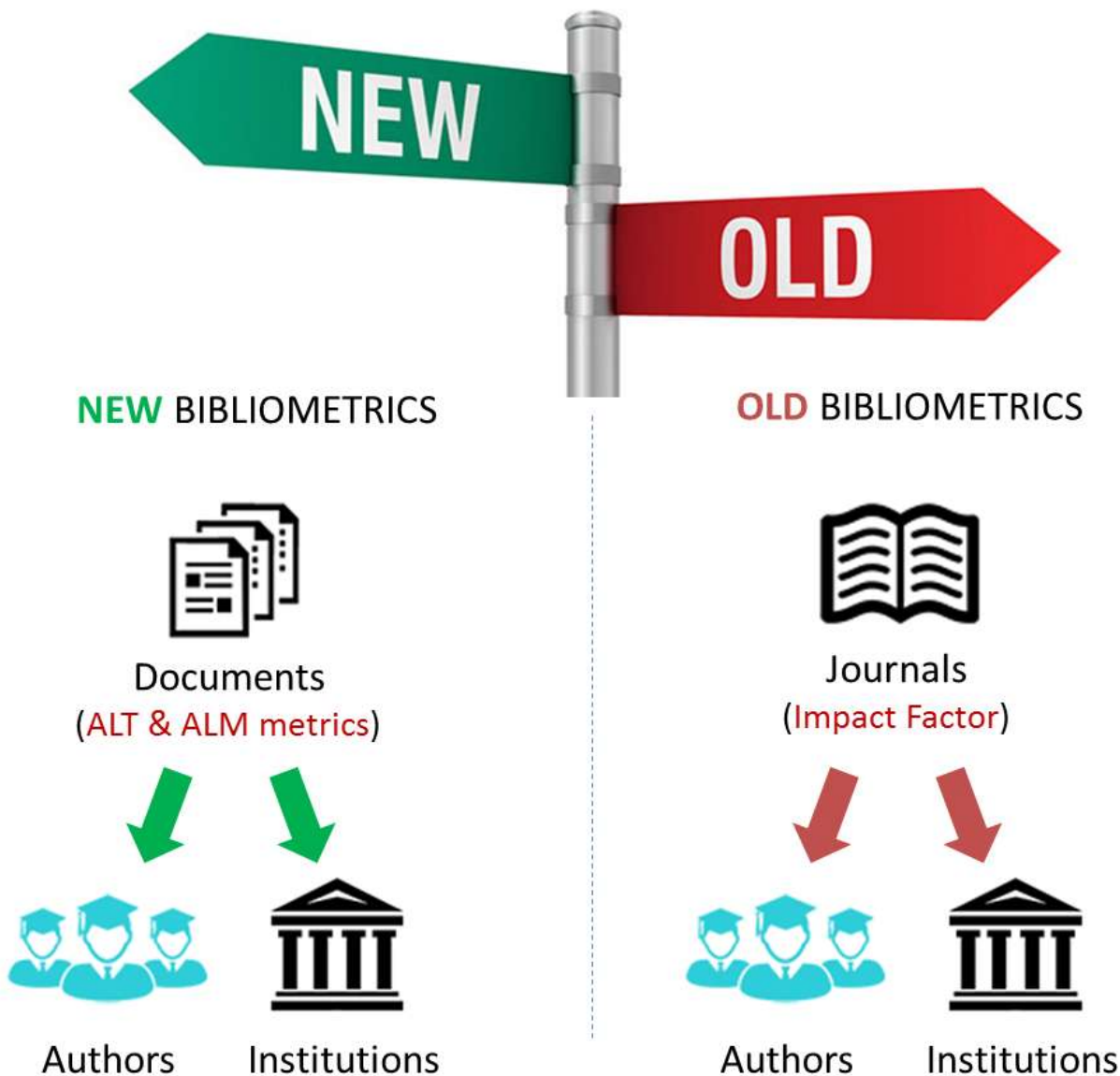
General overview

Displaying core authors 1-20 of 398. Sorted by GS Check to display related authors as well
citations (last 5 years), decreasingly.

Search an author

Name	Online presence	Google Scholar		ResearcherID		ResearchGate		Mendeley		Twitter	
		Citations	H Index	Citations	H Index	RG Score	Downloads	Readers	Followers	Tweets	Followers
Loet Leydesdorff		26484	73	6444	44	45.14	32165	0	11	84	375
Eugene Garfield*		22622	55	8790	153	-	-	-	-	-	-
Mike Thelwall		13840	61	3593	32	42.64	24989	7423	36	85	522
Derek J. de Solla Price		13263	33	-	-	-	-	-	-	-	-
Francis Narin		11297	45	-	-	32.38	795	-	-	-	-
Wolfgang Glänzel		10796	54	4924	38	41.16	10572	-	-	-	-
Ronald Rousseau		9570	42	NA	NA	42.75	8066	-	-	-	-
Chaomei Chen		9512	43	1740	20	34.65	31579	965	3	67	65
Anthony (Ton) F.J. van Raan		9200	53	-	-	38.47	6014	-	-	58	166
Ben R Martin		8975	39	-	-	-	-	-	-	-	-
András Schubert		8655	45	4121	31	39.24	1962	-	-	-	-
Peter Ingwersen		8356	35	NA	NA	30.64	8600	-	-	-	-
Henk F. Moed		8256	46	-	-	-	-	-	-	-	-
Blaise Cronin		7347	43	-	-	33.9	1891	-	-	-	-
Henry Small		7307	32	3360	23	-	-	-	-	-	-
Tibor Braun		7231	41	NA	NA	NA	NA	-	-	-	-

Deconstructing journals



THE NEXT BIBLIOMETRICS: ALMETRICS (AUTHOR LEVEL METRICS) AND THE MULTIPLE FACES OF AUTHOR IMPACT

La bibliometría que viene: *ALMetrics (Author Level Metrics)* y las múltiples caras del impacto de un autor

Enrique Orduña-Malea, Alberto Martín-Martín and Emilio Delgado-López-Cózar

Nota: Este artículo puede leerse traducido al español en:
http://www.profesionalesdelainformacion.com/contenidos/2016/may/j04_esp.pdf



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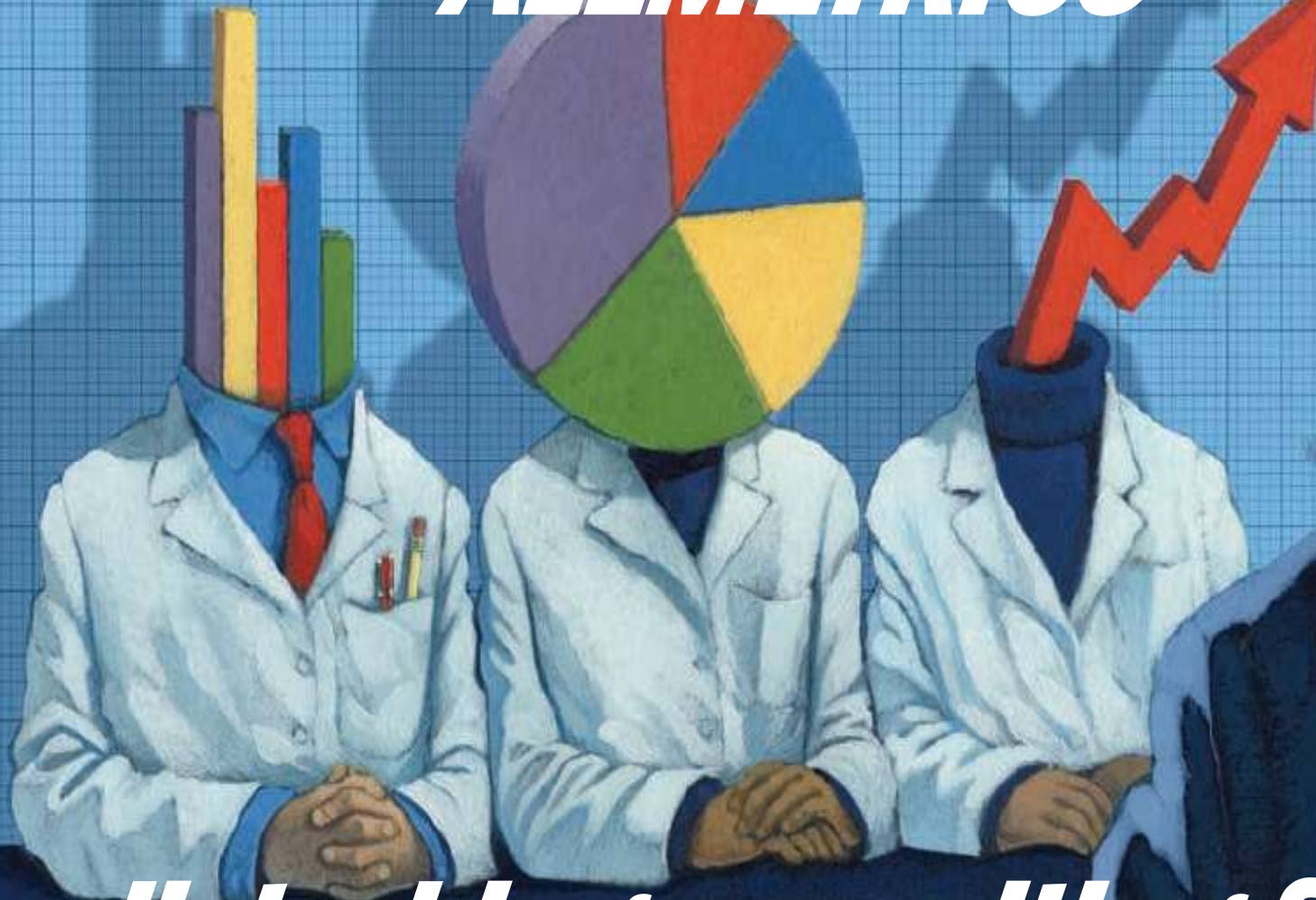
Abstract

The main goal of this article is to describe the purpose and content of a new branch of bibliometrics: *ALMetrics (Author Level Metrics)*. *ALMetrics* is focused on the quantitative analysis of an author's performance by measuring the dimensions of their intellectual activity as shown through varied metric indicators. This article will list, define, and classify the different

**Do we need journals?
Are they an endangered
species?**

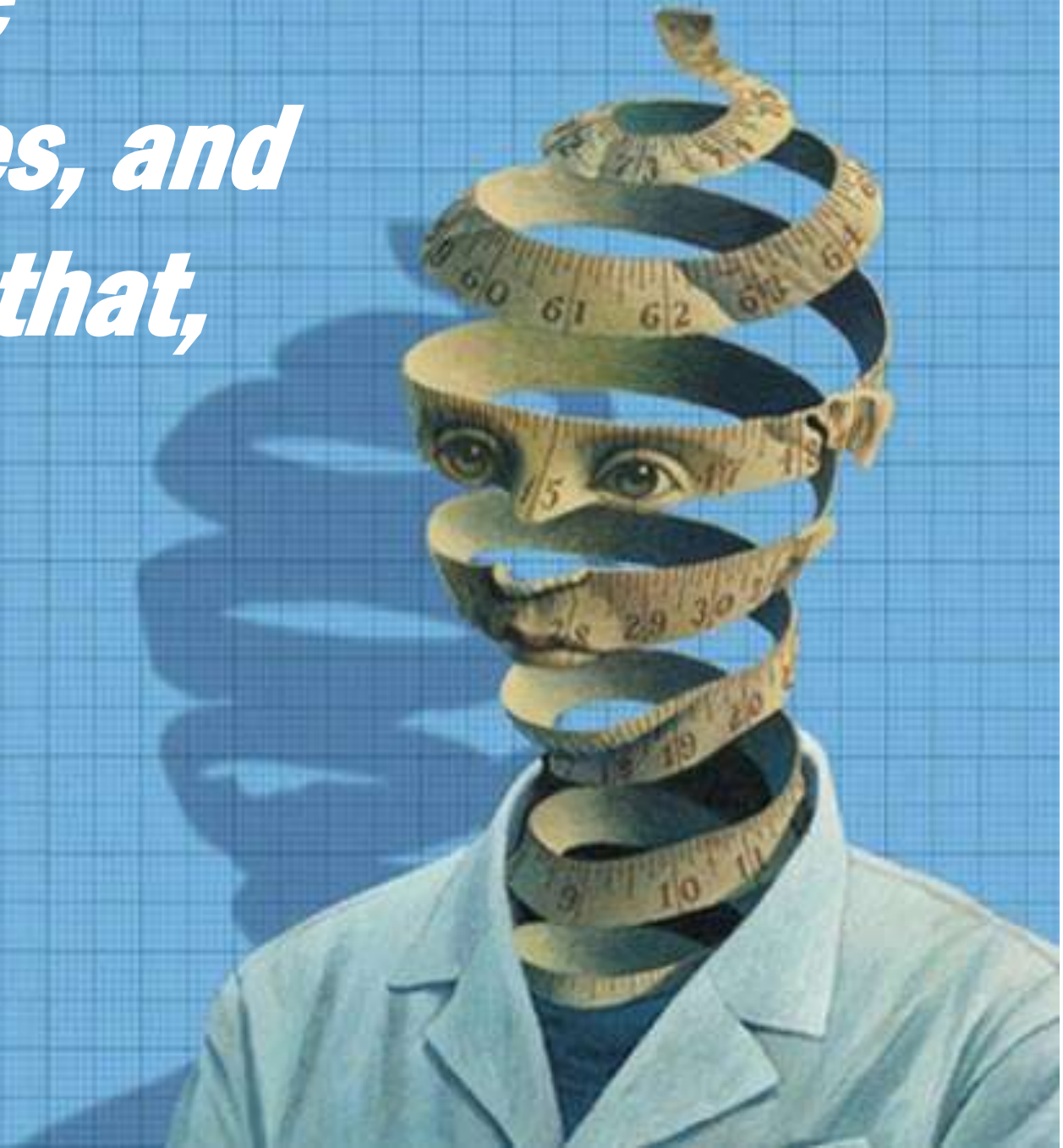
The measuring of Science

ALLMETRICS



a disturbing or exciting future?

***Narcissistic
technologies, and
because of that,
addictive***



Congratulations



With **1,531 new reads**, you were the **most read** author in Information Science



Achieved week ending Dec 18th ●●●●●●●●●●

Congratulations



With **745 new reads**, your technical report was the **most read** publication from your institution

Technical Report: Sesiones 2016: aparentemente todo sigue igual



Achieved week ending Dec 18th ●●●●●●●●●●

Congratulations



With **9 new citations**, you were the **most cited** researcher from your department

Achieved month ending Aug 31st

Gamification of the scientific endeavour

57 of your publications don't have full-texts yet

Add them to your profile to create visibility for more of your work and boost your stats totals.

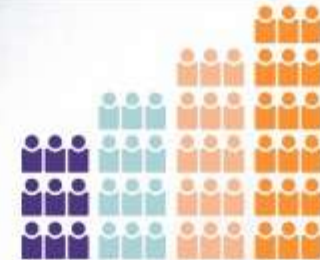
Improve your reach by helping your co-authors find their work and confirm authorship on ResearchGate:

[Increase your reach](#)

Boost your scores

We've found 1 of your full-texts online. Use our one-click uploader to quickly add it

[Go to one-click upload](#)



The role of ego in academic profile services: Comparing Google Scholar, ResearchGate, Mendeley, and ResearcherID



Academic profiling services are a pervasive feature of scholarly life. **Alberto Martín-Martín, Enrique Orduna-Malea and Emilio Delgado López-Cózar** discuss the advantages and disadvantages of major profile platforms and look at the role of ego in how these services are built and used. Scholars validate these services by using them and should be aware that the portraits shown in these platforms depend to a great extent on the characteristics of the "mirrors" themselves.



SPECIAL COLLABORATION

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 ePublished: 2016 Sep 22

Metrics in academic profiles: a new addictive game for researchers?

Enrique Orduna-Malea (1), Alberto Martín-Martín (2) and Emilio Delgado López-Cózar (2).

(1) Universitat Politècnica de València. Valencia. España.

(2) Universidad de Granada. Granada. España.

Los autores declaran que no existe conflicto de intereses

ABSTRACT

This study aims to promote reflection and bring attention to the potential adverse effects of academic social networks on science. These academic social networks, where authors can display their publications, have become new scientific communication channels, accelerating the dissemination of research results, facilitating data sharing, and strongly promoting scientific collaboration, all at no cost to the user.

One of the features that make them extremely attractive to researchers is the possibility to browse through a wide variety of bibliometric indicators. Going beyond publication and citation counts, they also measure usage, participation in the platform, social connectivity, and scientific, academic and professional impact. Using these indicators they effectively create a digital image of researchers and their reputations.

However, although academic social platforms are useful applications that can help improve scientific communication, they also hide a less positive side: they are highly addictive tools that might be abused. By gamifying scientific impact using techniques originally developed for videogames, these platforms may get users hooked on them, like addicted academics, transforming what should only be a means into an end in itself.

Keywords: Bibliometrics, Academic Profiles, Addiction, Gamification, Social networks, Video games, Adverse effects, Research ethics, research behavior, addictive.

RESUMEN

Métricas en perfiles académicos: ¿un nuevo juego adictivo para los investigadores?

Prende este trabajo provoca la reflexión y alerta de los posibles peligros para la ciencia que encierran las nuevas redes sociales académicas que tanto éxito están teniendo en nuestros días. Las redes sociales académicas donde los autores pueden mostrar sus publicaciones se han convertido en nuevos canales de comunicación científica, pues agilizan la diseminación de los resultados de investigación, facilitan la compartición de datos y fomentan la colaboración científica de forma extensa sin coste alguno.

Una de las novedades principales de estas plataformas, que es lo que las hace enormemente atractivas para los investigadores, consiste en la disponibilidad de una amplia batería de indicadores bibliométricos que van más allá del conteo de publicaciones y citas pues permiten medir el uso, la participación, la conectividad social y el impacto científico, académico y profesional. Sobre estos indicadores se está construyendo la propia imagen y reputación digital de los científicos.

Pues bien, todos estos beneficios de las redes sociales académicas en la mejora de la comunicación científica esconden un lado no tan positivo para la ciencia. Se trata de herramientas muy peligrosas, que pueden convertirse en adictivas adiciones. Mediante la gamificación del impacto científico a través de persuasivas técnicas procedentes de los videojuegos, estas plataformas pueden hacer que los usuarios queden enganchados, como académicos adictos, convirtiendo lo que es un medio en un fin en sí mismo.

Palabras clave: Bibliometría, Perfiles académicos, Gamificación, Redes sociales, Videojuegos, Efectos adversos, Ética de la investigación, Comportamiento adictivo.

Will the metric become an end in itself?



**New “scientific illnesses”
impactitis, egotitis...**

Un día en la vida de Chris

- Cuando se despierta, Chris Dancy **analiza los datos que ha registrado su colchón mientras dormía** para saber si se ha movido, ha hablado en sueños o ha rechinado los dientes.
- Toda su vida está vigilada, hasta el sexo. Por eso, Chris **pide a sus parejas que registren y midan su propia actividad en sus encuentros amorosos**. Algunas aceptan; otras, no. Al menos, tiene la caballerosidad de no contarles los resultados.
- Si va a un restaurante o a un concierto, **le piden que se quite sus Google Glass**. «Pero nunca me piden que me quite la cámara que llevo sobre la cabeza».
- **Su correo electrónico también está sometido a análisis**, así como la cisterna del cuarto de baño o el armario de las medicinas.
- En la actualidad, **varias firmas de electrónica le pagan** para estudiar esta 'vida vigilada'.

Los dispositivos que lleva en su cuerpo

Google Glass. Dispositivo de visualización, parecido a unas gafas de realidad aumentada, que se controla con la voz, con funciones similares a las de un smartphone.

Cámara narrativa. Suele llevarla en la cabeza y, cada dos segundos, toma fotografías que envía al smartphone.

Wahoo Blue HR. Monitor que, instalado bajo la camiseta, controla su frecuencia cardiaca.

Brazalete FitBit. Sus sensores miden el rendimiento físico y almacenan sus datos. Se conecta a un ordenador mediante USB.

Controlador de actividad JawboneUp. "Lo empecé a utilizar en mayo. Relaciona las estadísticas de tu conducta con las de tus movimientos físicos", explica.

Pulsioxímetro. Lo utiliza una vez al día para medir el nivel de saturación de oxígeno en su sangre.

Body Media FIT. Banda para el brazo dotada de sensores que miden el rendimiento del cuerpo, dormido o durante la vigilia.

Relojes inteligentes Pebble y Samsung Gear. Almacenan los datos procedentes del resto de los sensores.

Lumoback. Se coloca en la cintura. Analiza la postura del cuerpo y emite una señal cuando este no está equilibrado.

iPhone 5S. Lo utiliza, sobre todo, para recoger y almacenar informaciones personales.

Y en su casa tiene además...

Netatmo: mide el ruido, la calidad del aire y la temperatura de su casa.

WeMo: detecta el movimiento y enciende y apaga los dispositivos electrónicos a distancia.

Aria: mide las ondas Wi-Fi.

Hue: combate el efecto dañino de las ondas Wi-Fi.

Tagg: vigila la actividad de sus perros.

NetGear VueZone: sistema de vídeo que graba la actividad en el hogar.

Thermostat Nest: regula la temperatura por Wi-Fi.

Nest Protect: detector de gas.

Beddit: colchón inteligente que mide la calidad del sueño.

Automatic: analiza su conducción.

Estimote: información sobre los objetos de su hogar.

Cube Sensors: controla el ruido, la humedad y la presión atmosférica de la casa.

Thank you very much for your attention

Emilio Delgado López-Cózar

edelgado@ugr.es

