

Crowdsourcing Scholarly Data and Universality of Impact Metrics

Diep Thi Hoang, Jasleen Kaur, Filippo Radicchi, Xiaoling Sun,
Snehal Patil, Lino Possamai, Mohsen Jafari-Asbagh,
Filippo Menczer



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INDIANA UNIVERSITY
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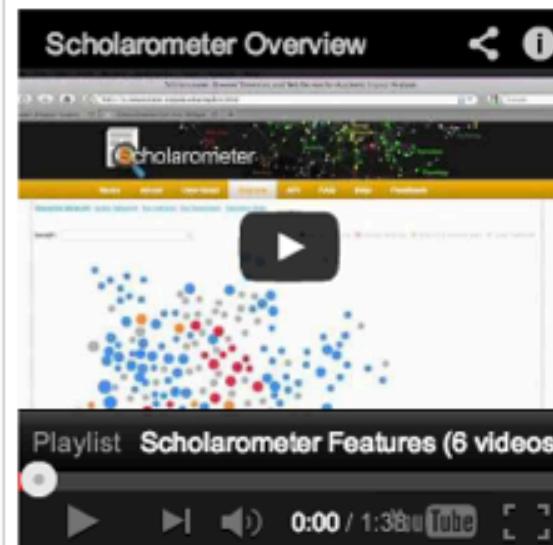
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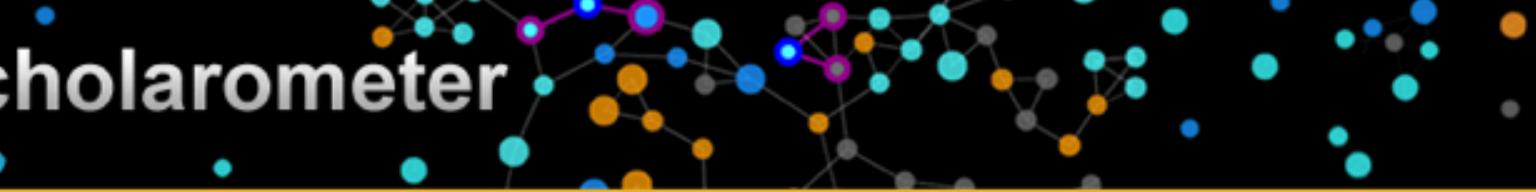
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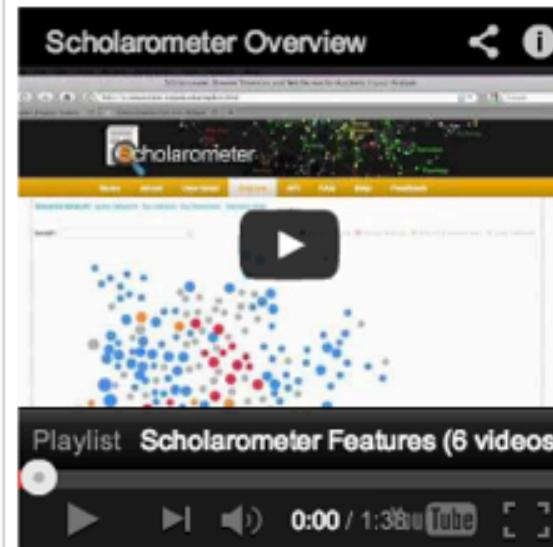
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Impact Analysis

Max Year:

2011

Show 25 entries



Search:

Min Year:

1891

Max Cited:

12442

Min Cited:

49

Select

Any

Name Variations

s freud (213)

Top Co-authors

j strachey (4)

j breuer (2)

t dufresne (1)

d mclintock (1)

w fließ (1)

h cixous (1)

mr gonzález (1)

e jones (1)

jb watson (1)

a gesell (1)

	Times Cited	Authors	Title/Links	Year
<input type="checkbox"/>	12442	S Freud	The interpretation of dreams	1953
<input type="checkbox"/>	12002	S Freud	Jokes and their relation to the unconscious	1960
<input type="checkbox"/>	8200	S Freud, ...	Civilization and its discontents	2005
<input type="checkbox"/>	7739	S Freud	Introductory lectures on psychoanalysis	1977
<input type="checkbox"/>	6173	S Freud, T Dufresne, ...	Beyond the pleasure principle	2011
<input type="checkbox"/>	6159	S Freud	Three essays on the theory of sexuality	1975
<input type="checkbox"/>	6061	S Freud	Mourning and melancholia	1957
<input type="checkbox"/>	5461	S Freud	Totem and taboo	1999
<input type="checkbox"/>	4271	S Freud	Group psychology and the analysis of the ego	1975
<input type="checkbox"/>	4202	S Freud	On narcissism: An introduction	1957
<input type="checkbox"/>	4034	J Breuer, S Freud, ...	Studies on hysteria	2000
<input type="checkbox"/>	3101	S Freud	Analysis terminable and interminable	1964
<input type="checkbox"/>	2848	S Freud, J Strachey, ...	The future of an illusion	1989
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<input type="checkbox"/>	2247	S Freud, D McLintock, ...	The uncanny	2003
<input type="checkbox"/>	2142	S Freud	The psychopathology of everyday life	1966
<input type="checkbox"/>	2125	S Freud	Project for a scientific psychology (1950)	1966
<input type="checkbox"/>	2121	S Freud	The unconscious	1957
<input type="checkbox"/>	2086	S Freud	Instincts and their vicissitudes	1957
<input type="checkbox"/>	2046	S Freud	A general introduction to psychoanalysis	1920
<input type="checkbox"/>	2028	S Freud	O mal-estar na civilização (1930)	1980
<input type="checkbox"/>	1925	S Freud, ...	Tres ensayos sobre teoría sexual	1972
<input type="checkbox"/>	1789	S Freud	Moses and monotheism: Three essays	1964
<input type="checkbox"/>	1726	S Freud	Remembering, repeating and working-through (Further recommendations on the technique of psycho-analysis II)	1958

Number of Articles: 214

Number of Citations: 191158

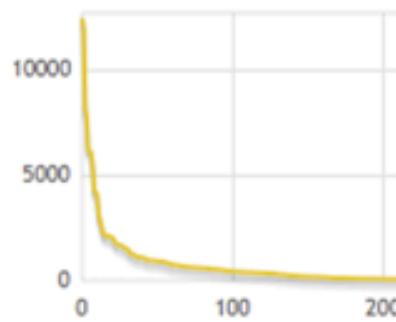
h (%ile): 158 (100)

g (%ile): 214 (99)

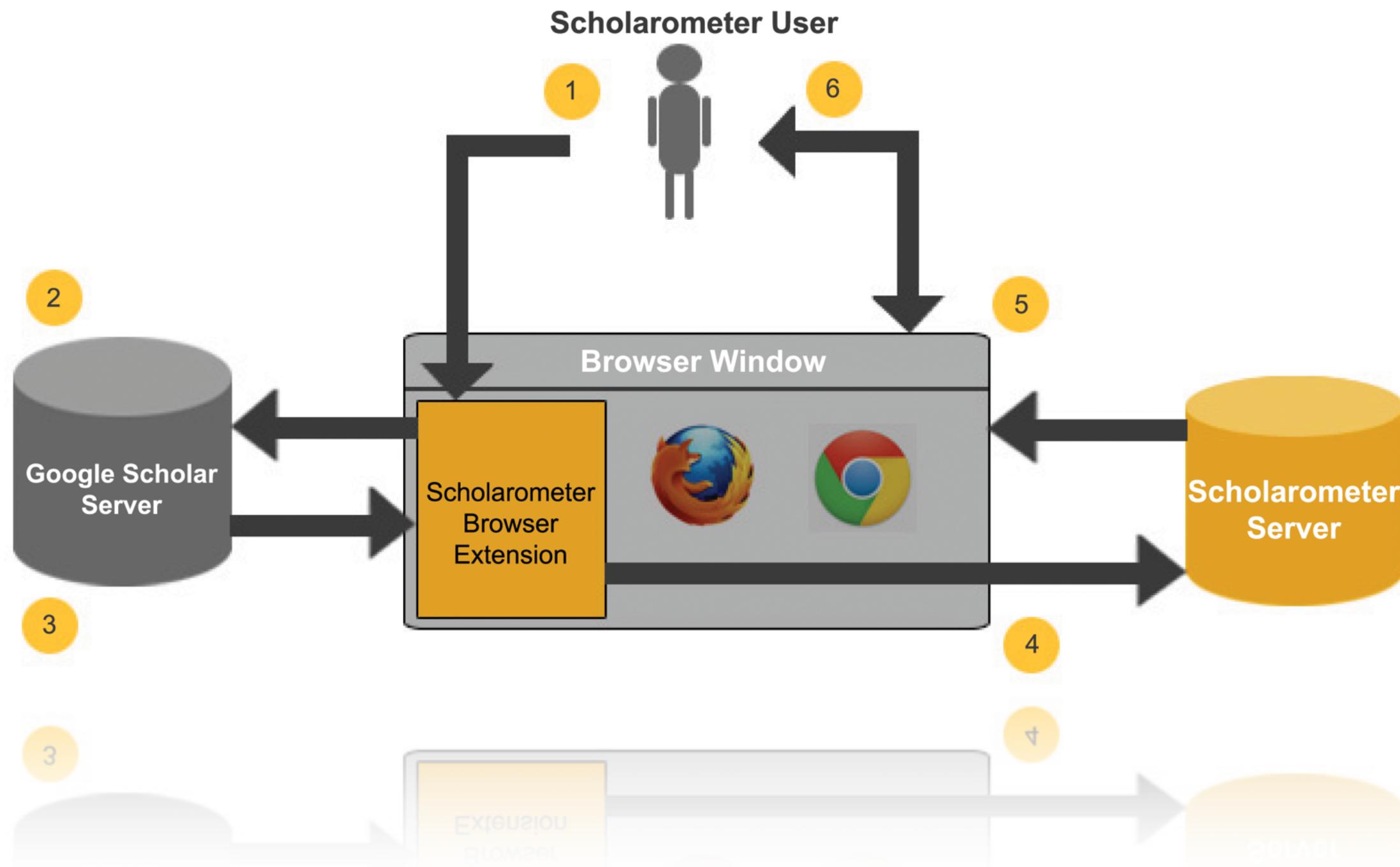
h_m (%ile): 141.75 (100)

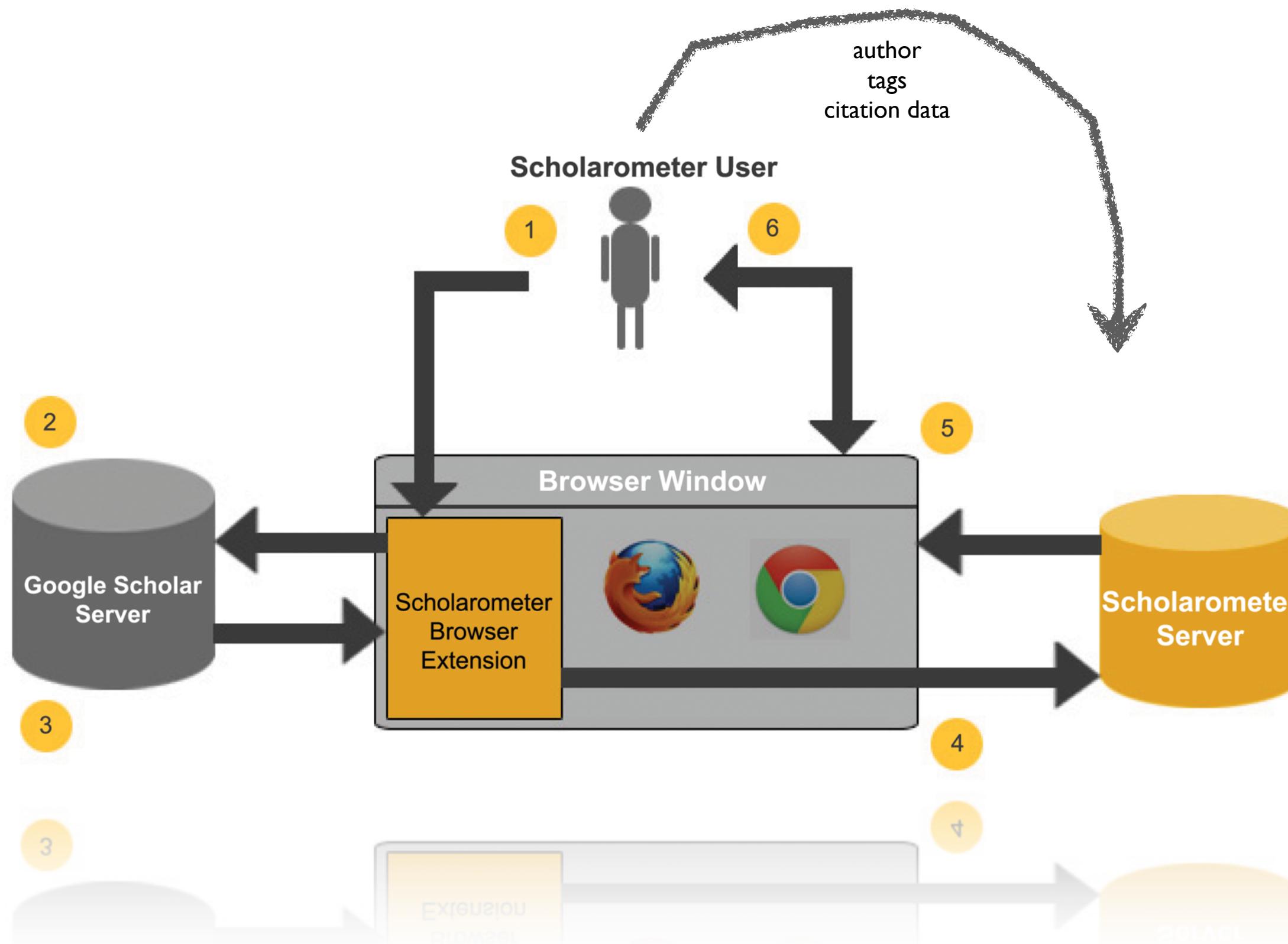
discipline	tagged	h _r (%ile)
psychology	7	8.45 (100)
psychology, psychoanalysis	2	1.58 (46)
social issues	2	3.36 (94)
sociology	2	8.36 (100)
automation & control systems	1	4.92 (100)
behavioral sciences	1	5.49 (100)
philosophy	1	16.19 (100)
political theory	1	17.92 (98)

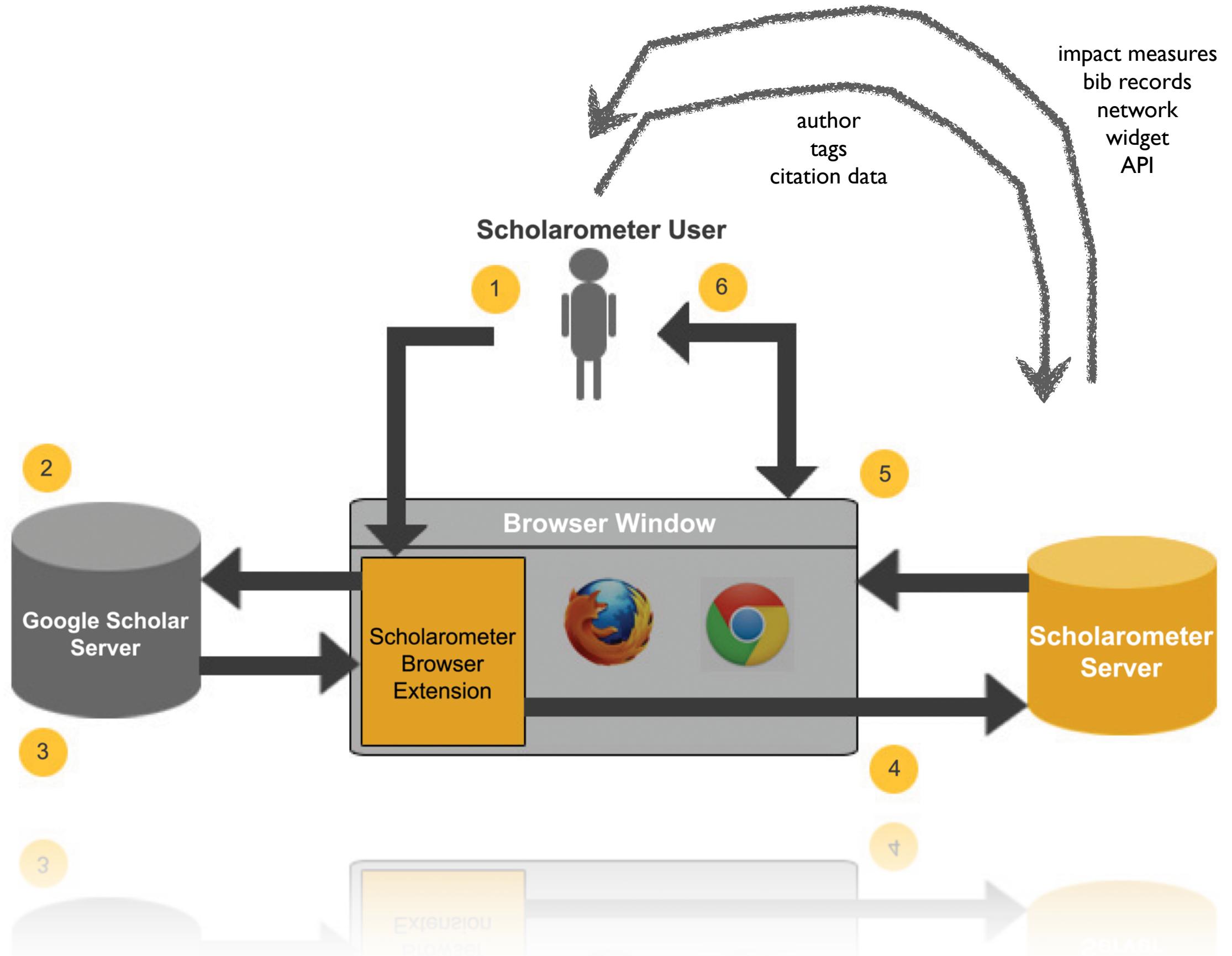
Citations by Article Rank

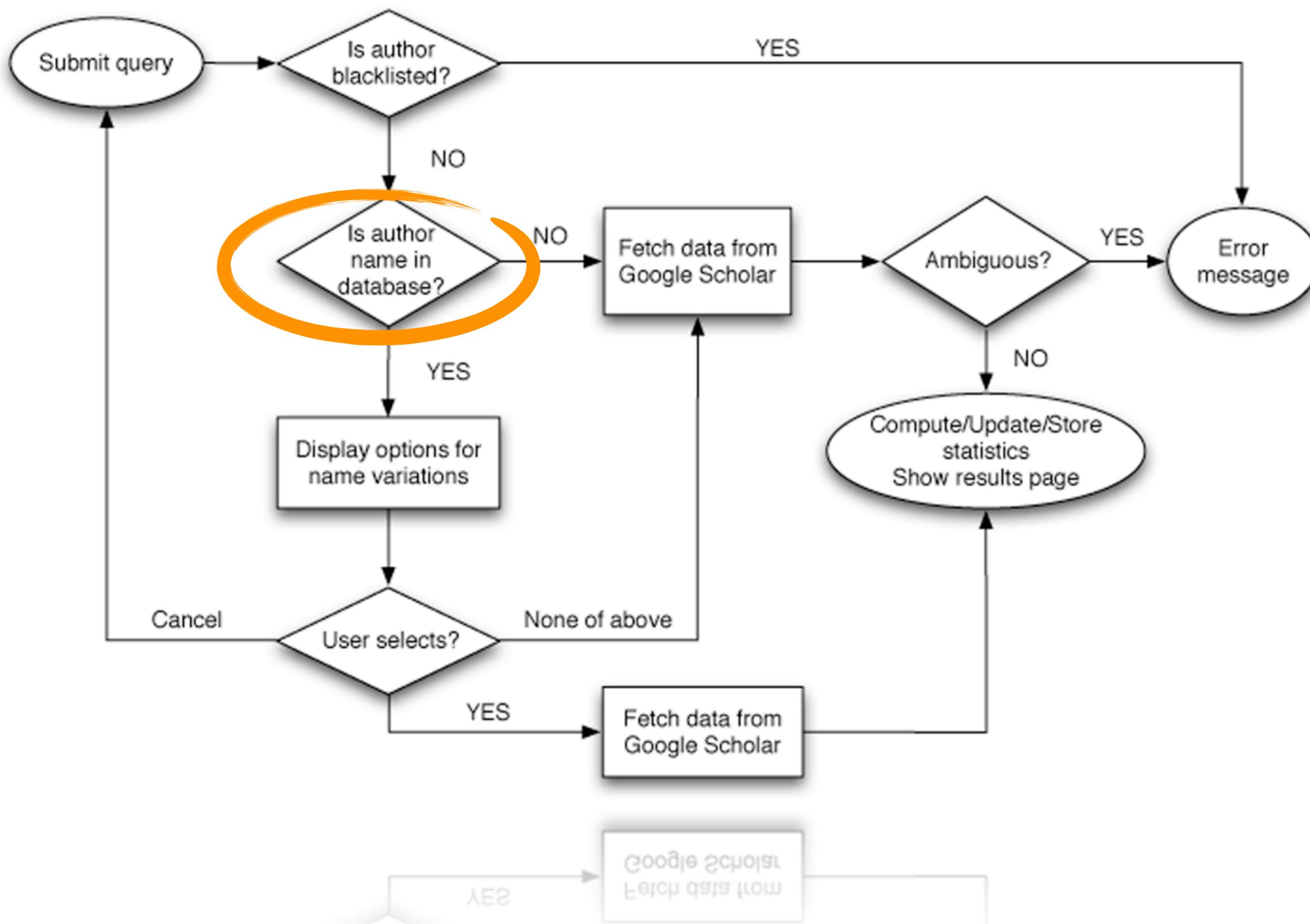
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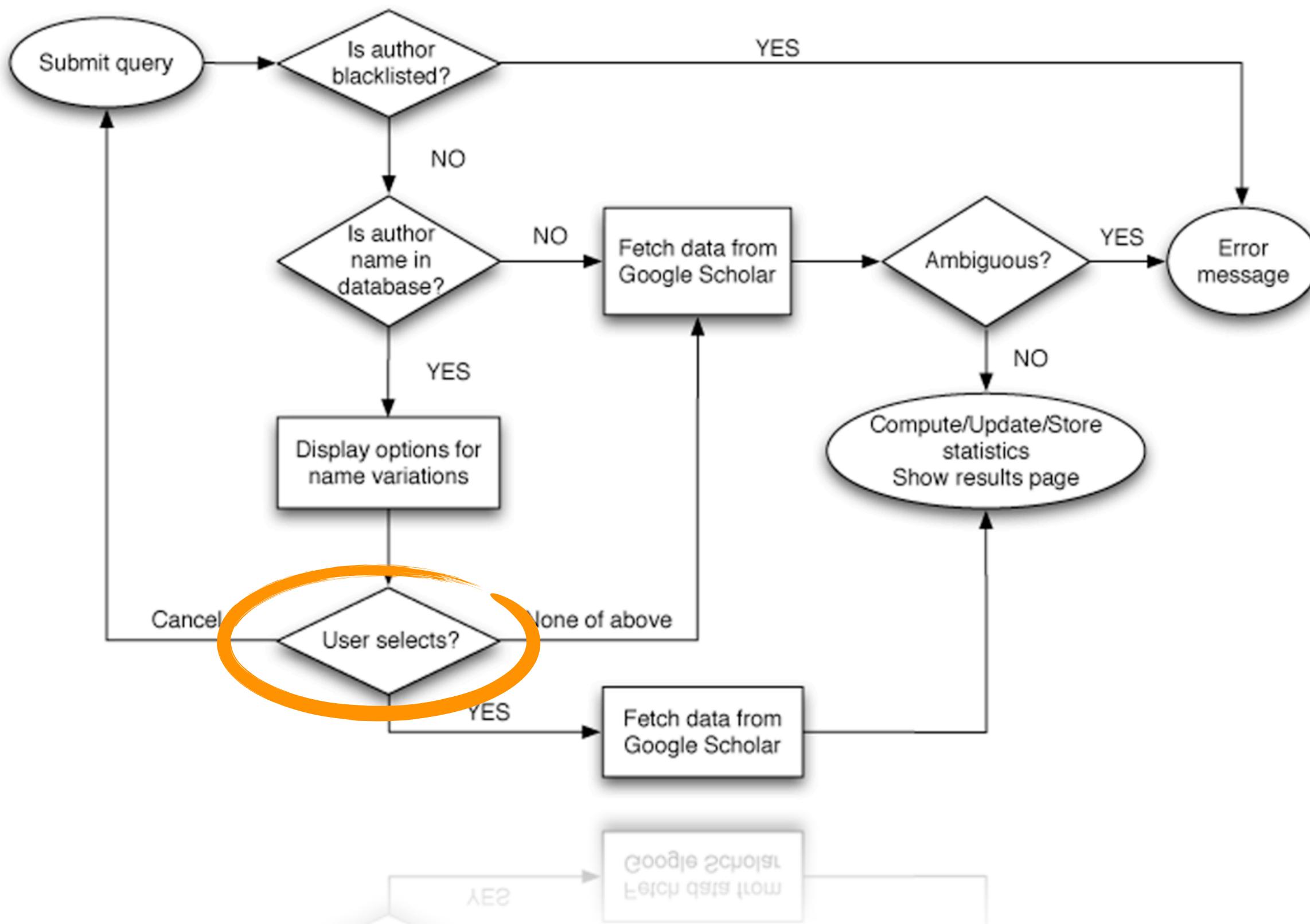
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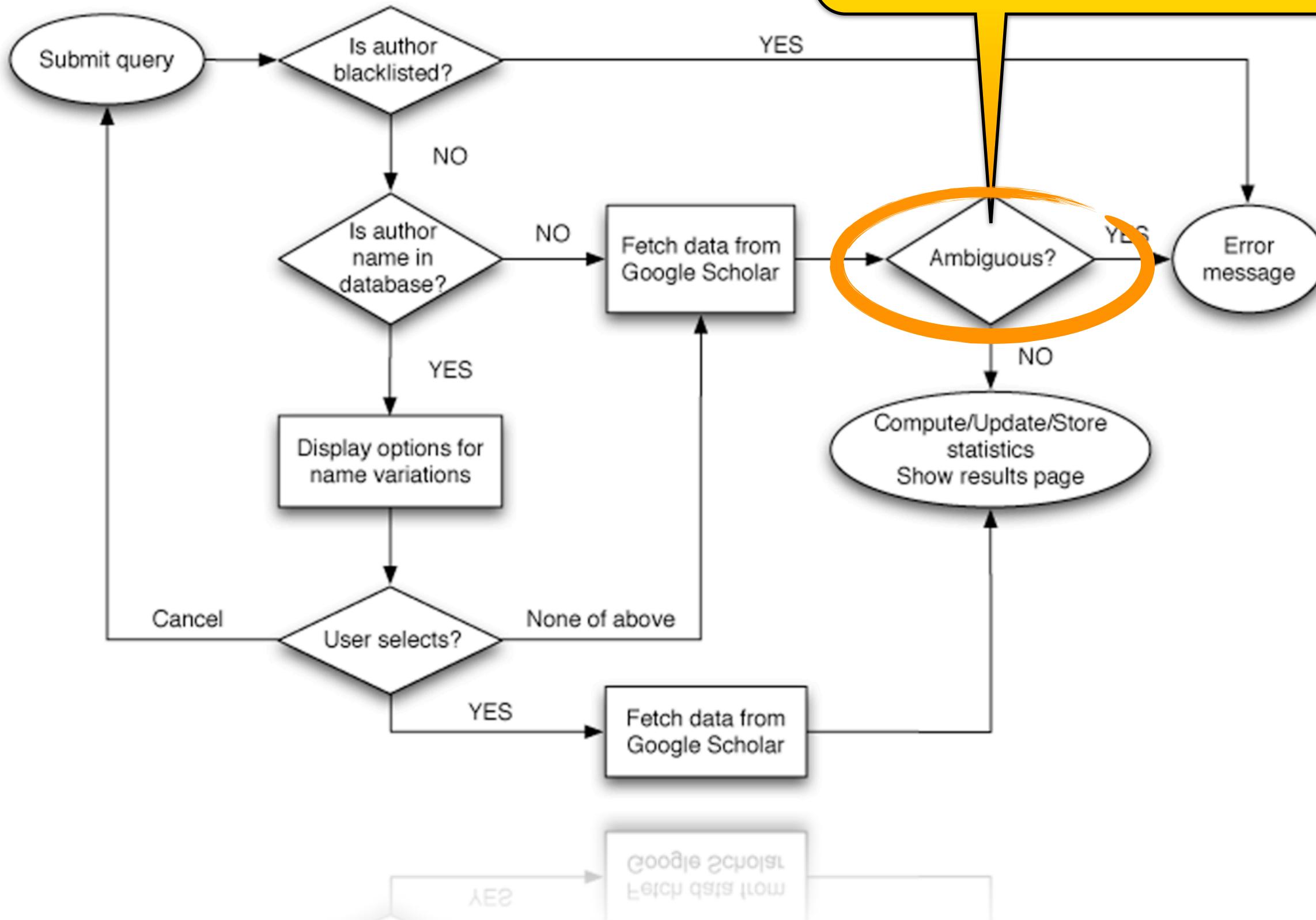




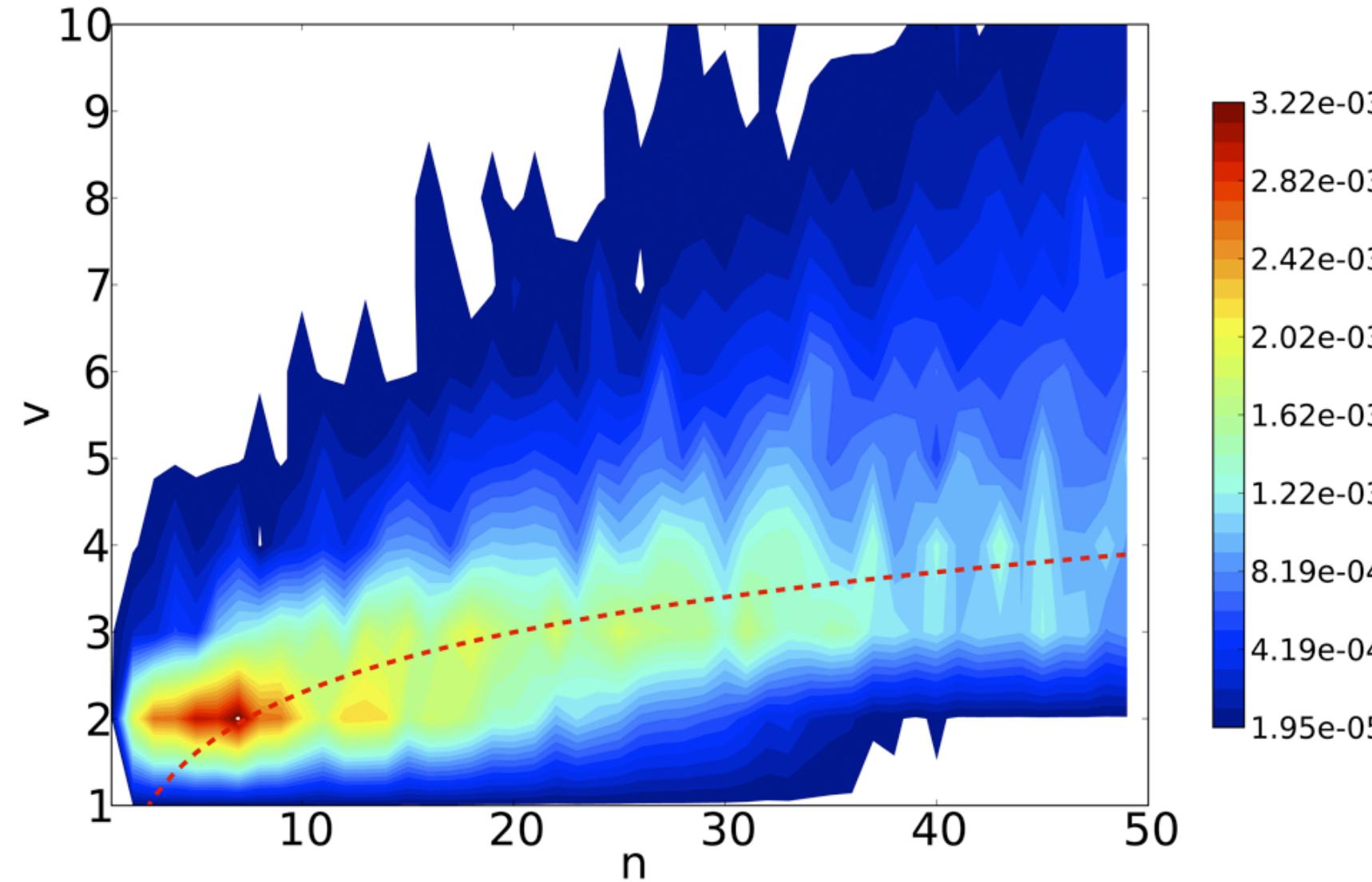






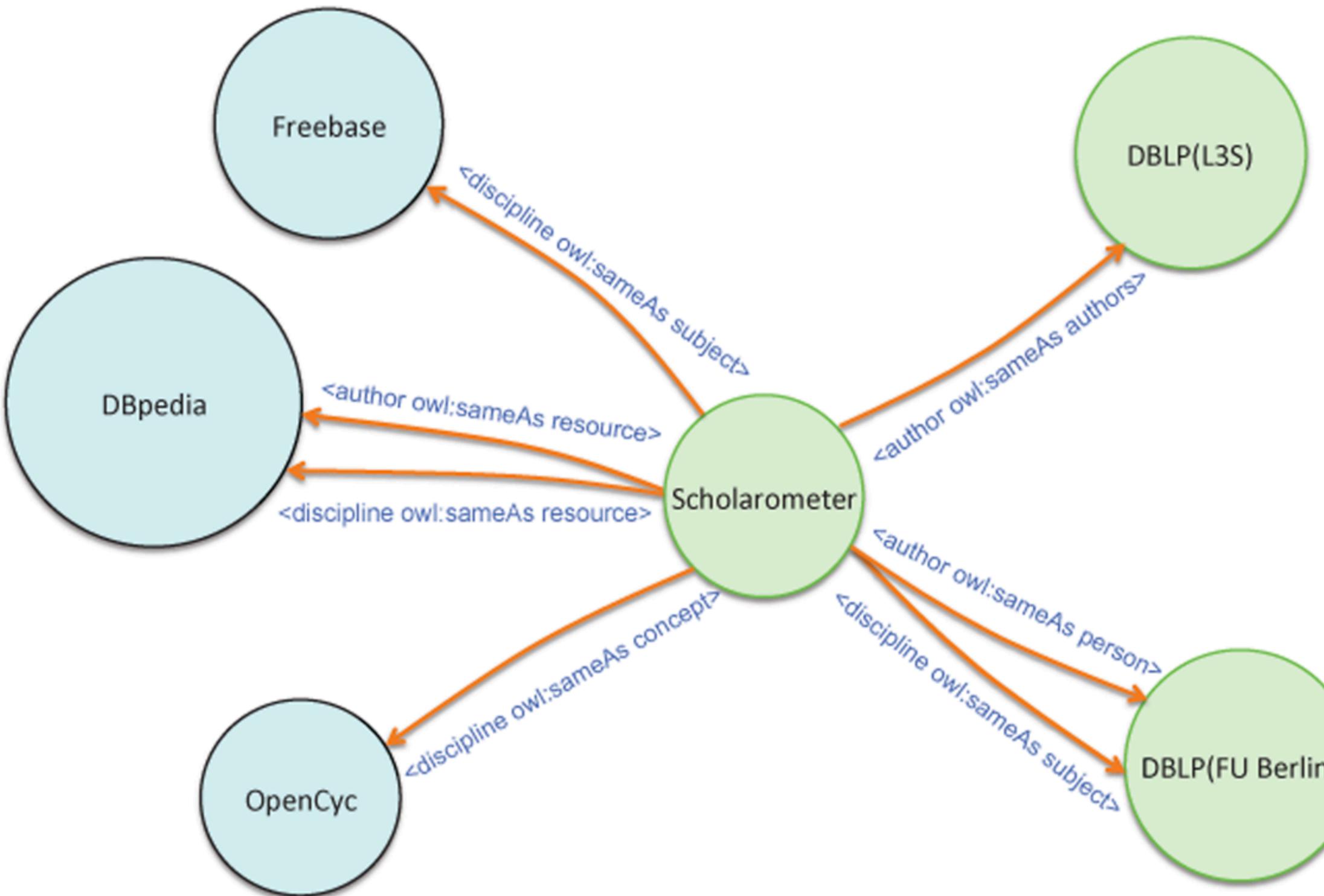


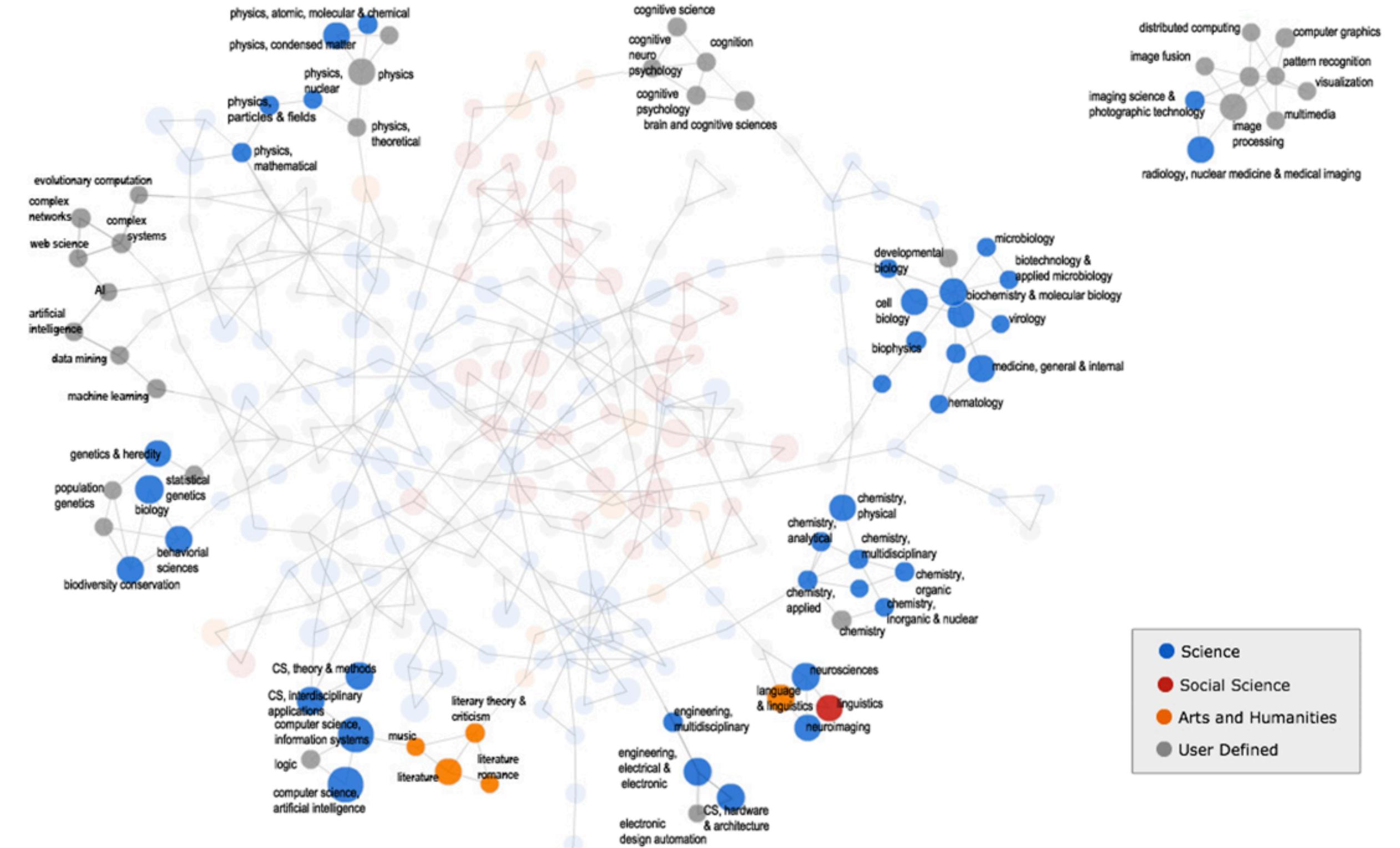
Reliability heuristics



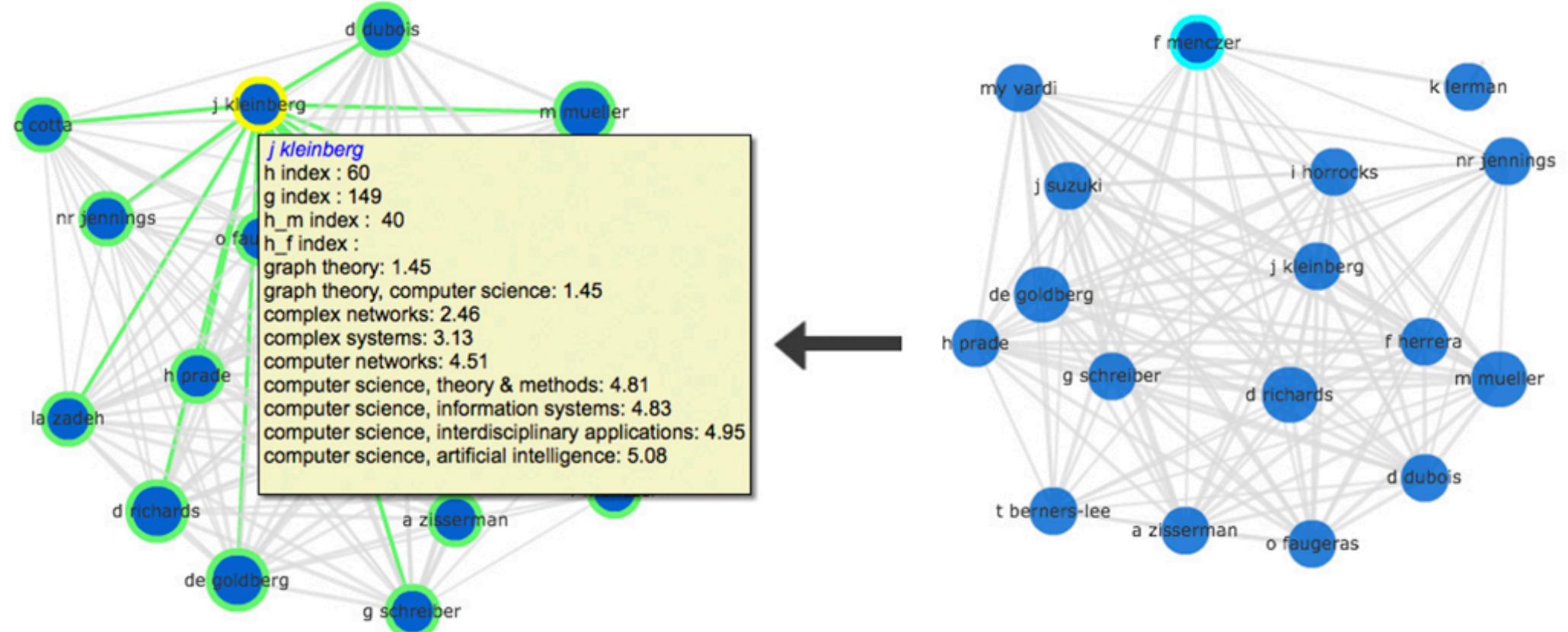
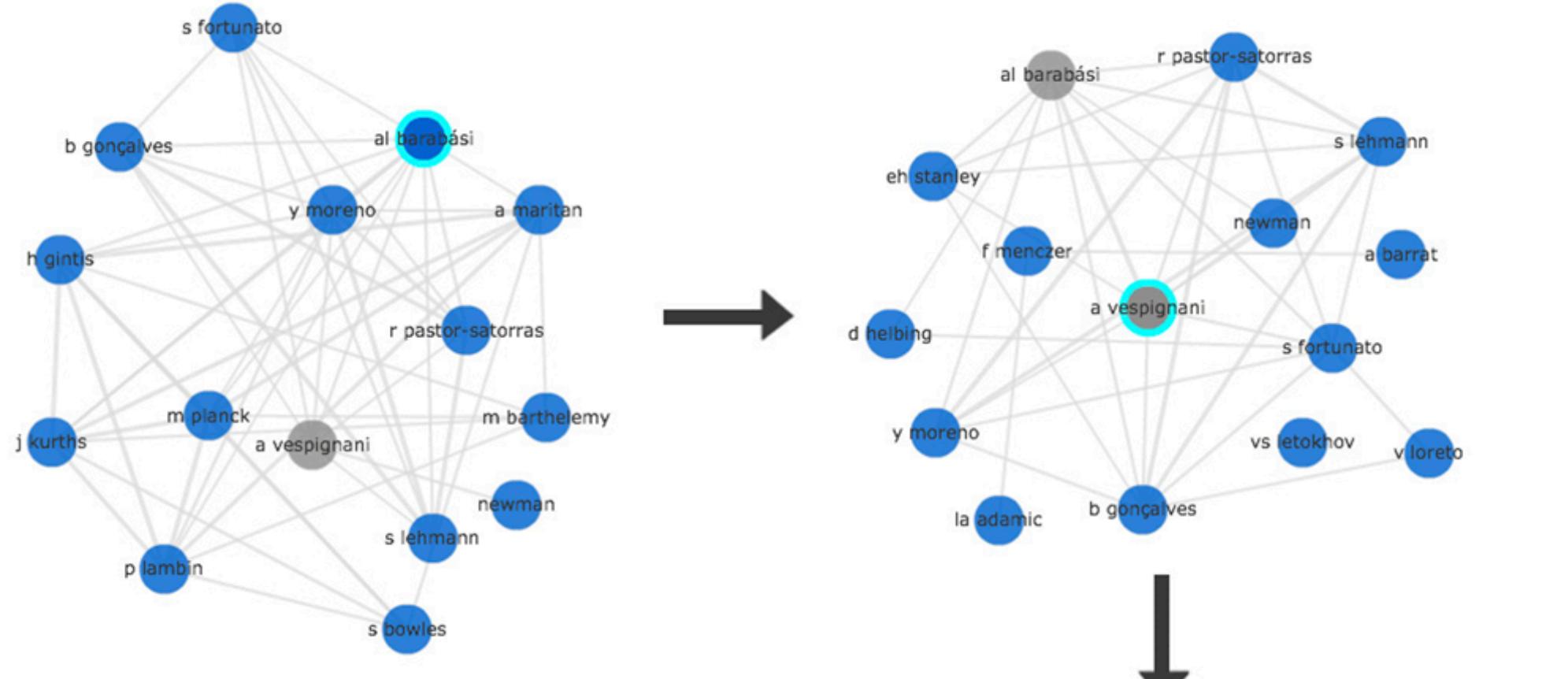
J. Kaur & al: Scholarometer: A Social Framework for Analyzing Impact across Disciplines. *PLoS ONE* 7(9):e43235, 2012

Linked Open Data & API





- Science
- Social Science
- Arts and Humanities
- User Defined



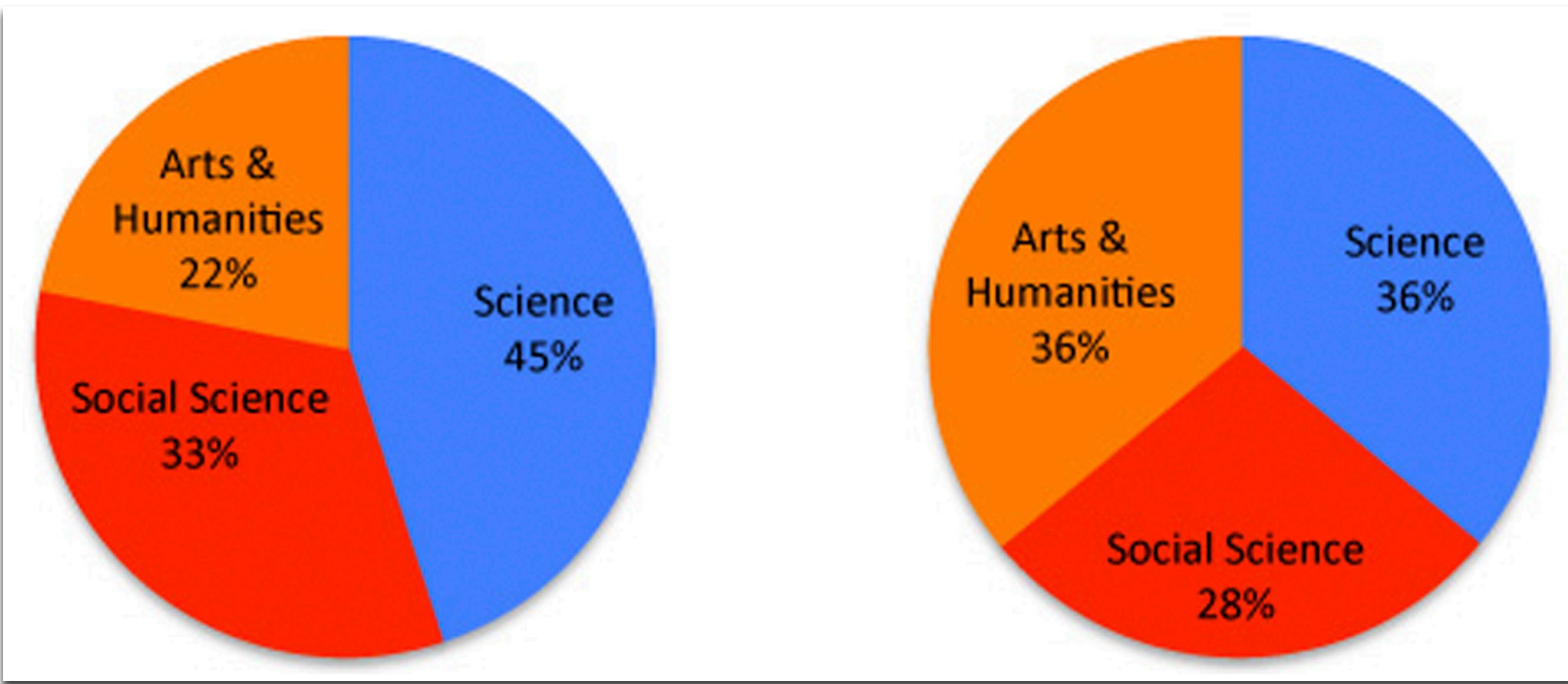


A profusion of measures

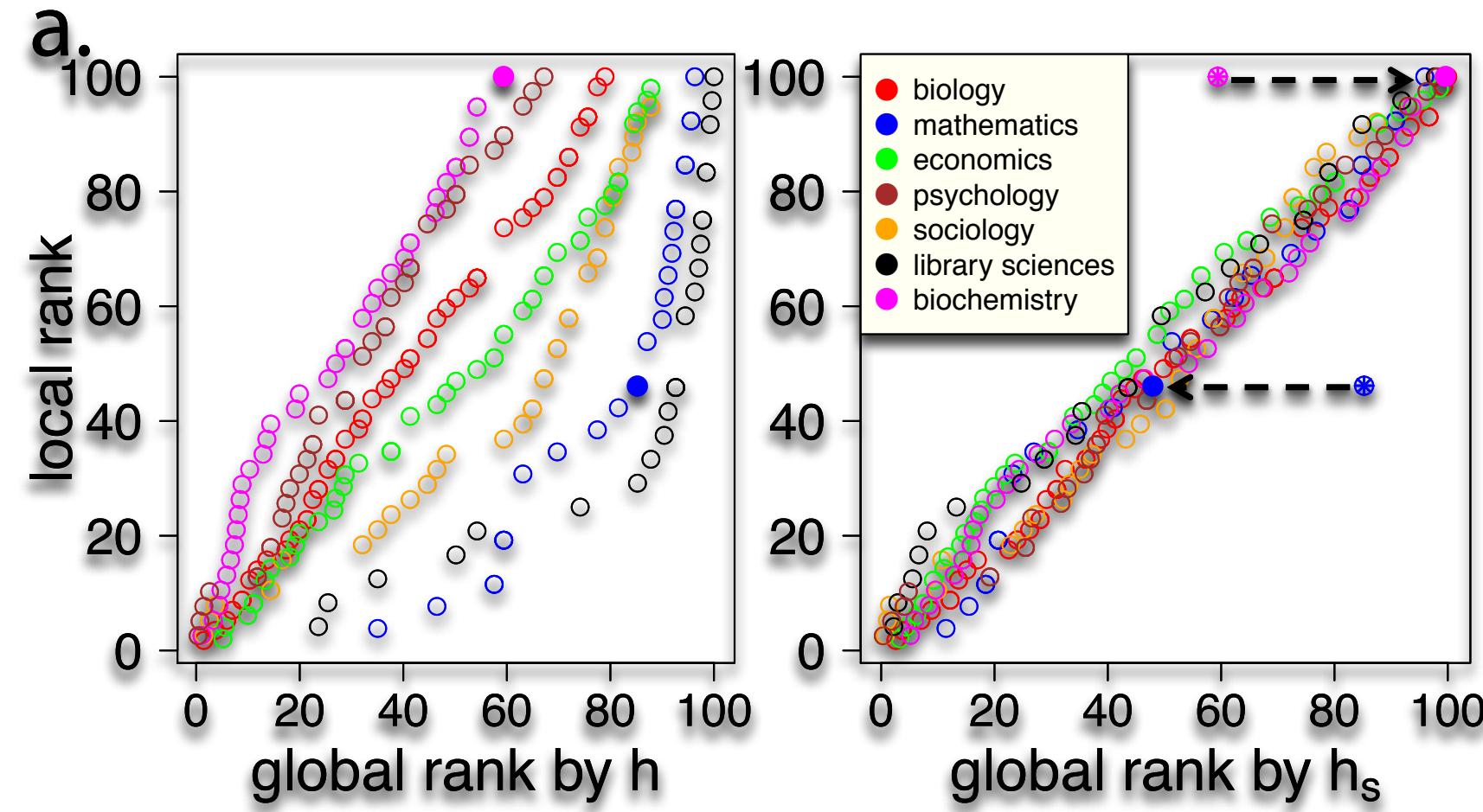
Scientific performance indicators are proliferating — leading researchers to ask afresh what they are measuring and why. **Richard Van Noorden** surveys the rapidly evolving ecosystem.

	<i>h</i>	<i>g</i>	<i>h_m</i>	<i>h_f</i>
1	JN Ihle	DR Cox	S Freud	S Freud
2	WC Willett	GM Whitesides	M Friedman	N Chomsky
3	MJ Stampfer	JN Ihle	P Bourdieu	S Kumar
4	M Friedman	W Zhang	SH Snyder	W Zhang
5	W Zhang	S Freud	E Witten	CR Sunstein
6	SH Snyder	LA Zadeh	JE Stiglitz	R Langer
7	Y Sun	A Shleifer	S Weinberg	E Witten
8	S Freud	P Bourdieu	N Chomsky	P Krugman
9	B Vogelstein	N Chomsky	HA Simon	P Bourdieu
10	S Kumar	T Maniatis	RA Posner	JL Goldstein

doi:10.1371/journal.pone.0043235.t001





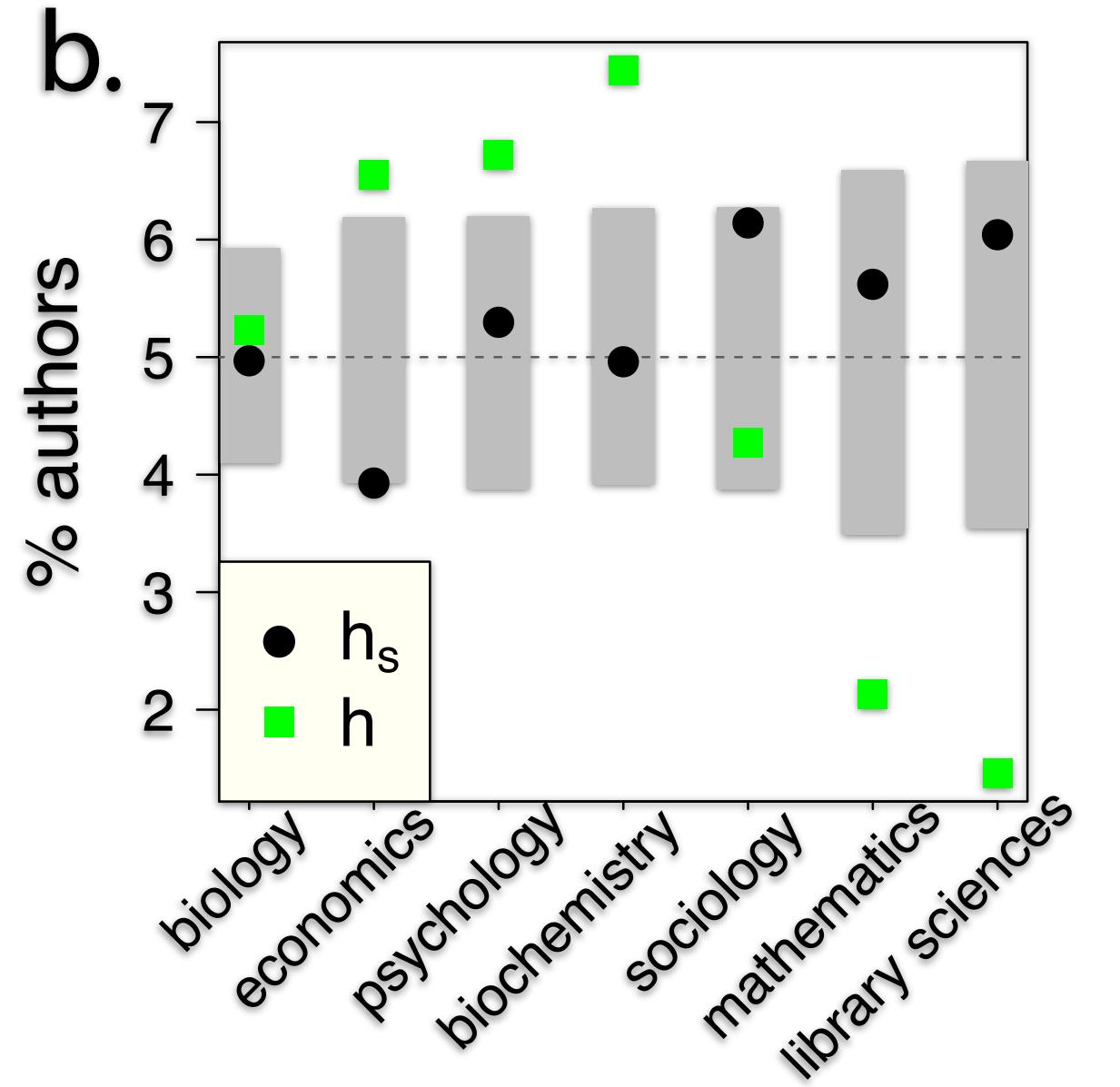


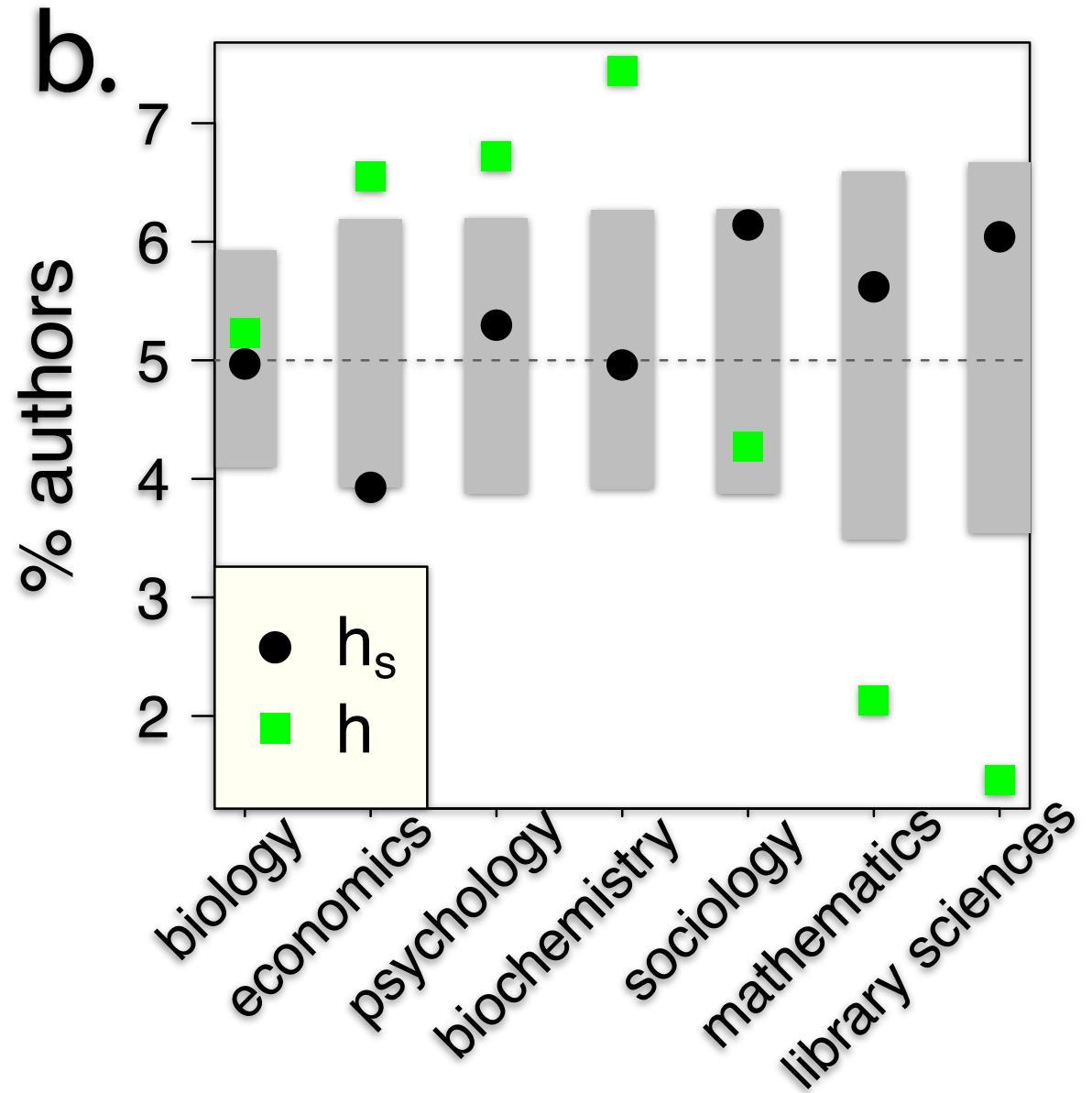
Universality

$$u_m(z) = 1 - \frac{1}{D} \sum_{d=1}^D \left| \frac{f_{z,d}^m}{z} - 1 \right|^{\alpha}$$

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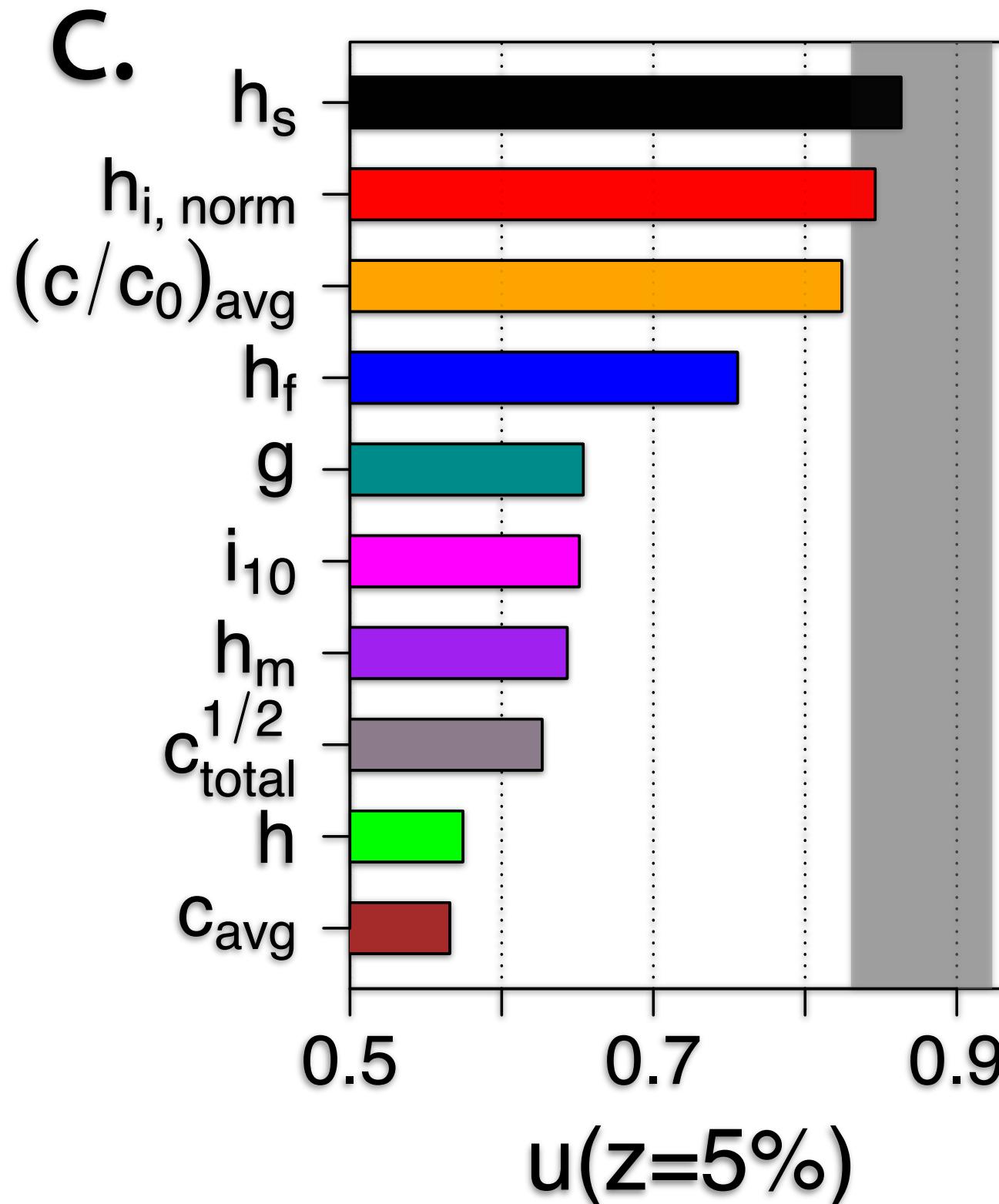




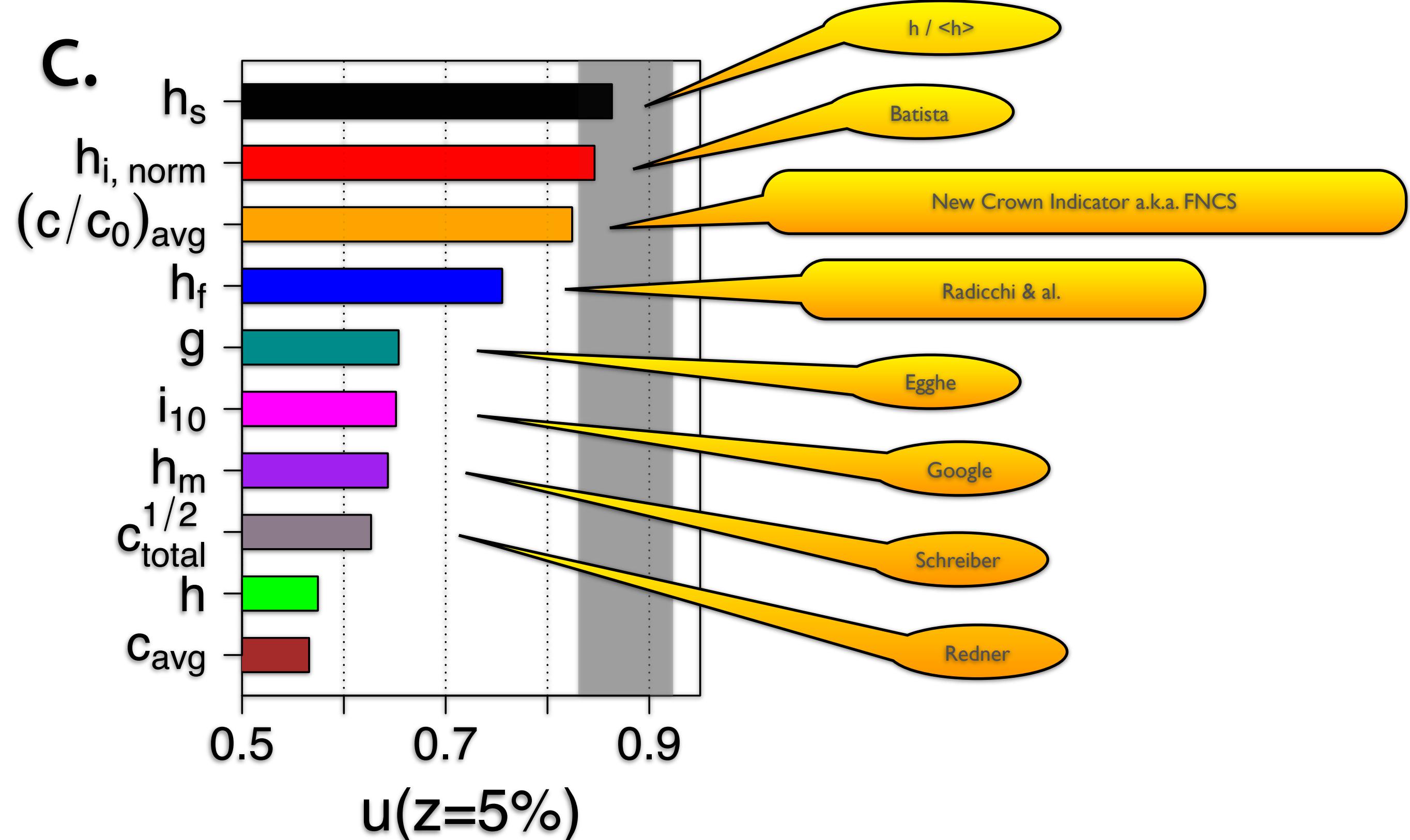
Fluctuations:
hypergeometric
distribution

$$P(m_d^z | n_z, N, N_d) = \frac{\binom{N_d}{m_d^z} \binom{N-N_d}{n_z - m_d^z}}{\binom{N}{n_z}}$$

Which metrics are universal?

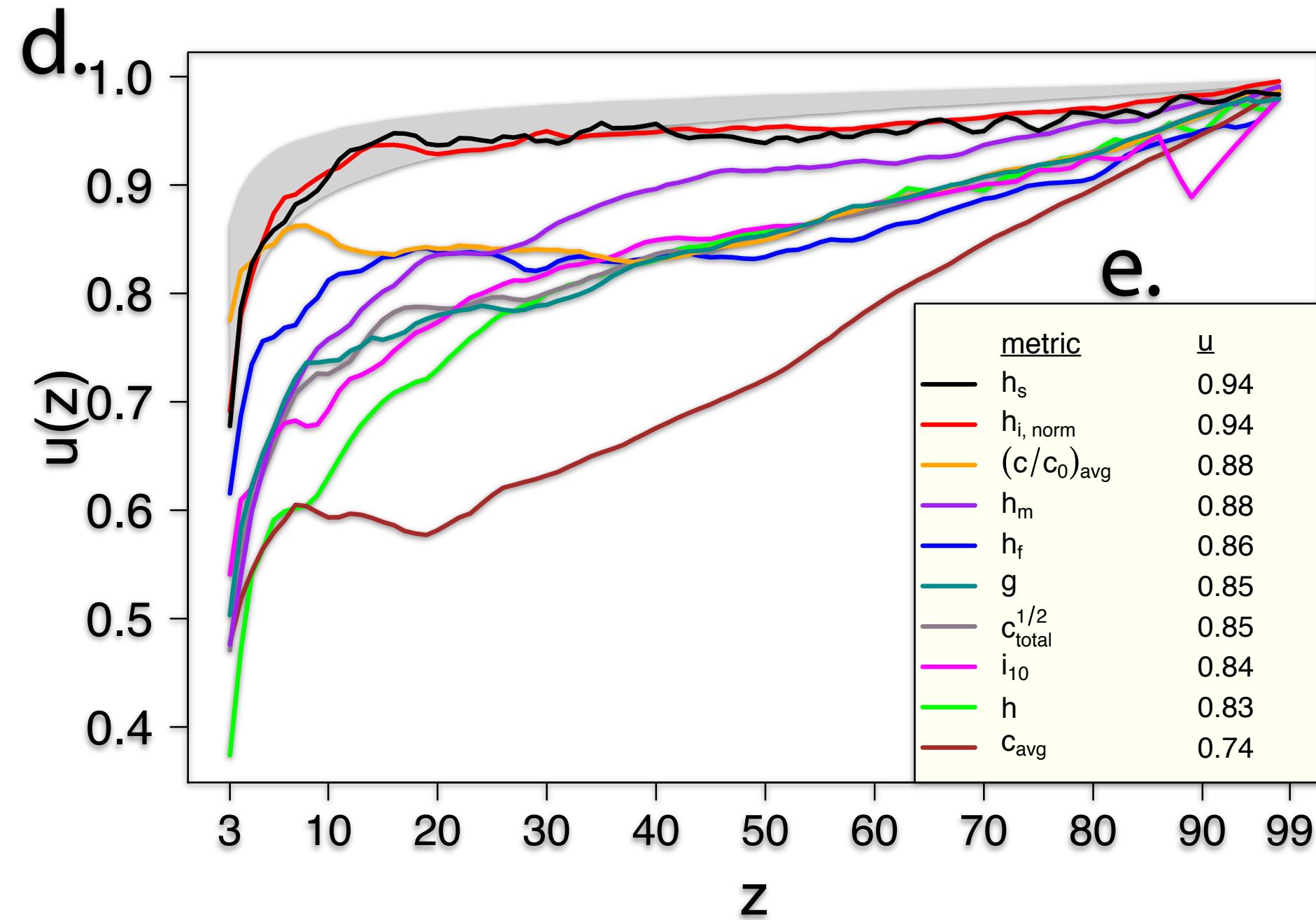


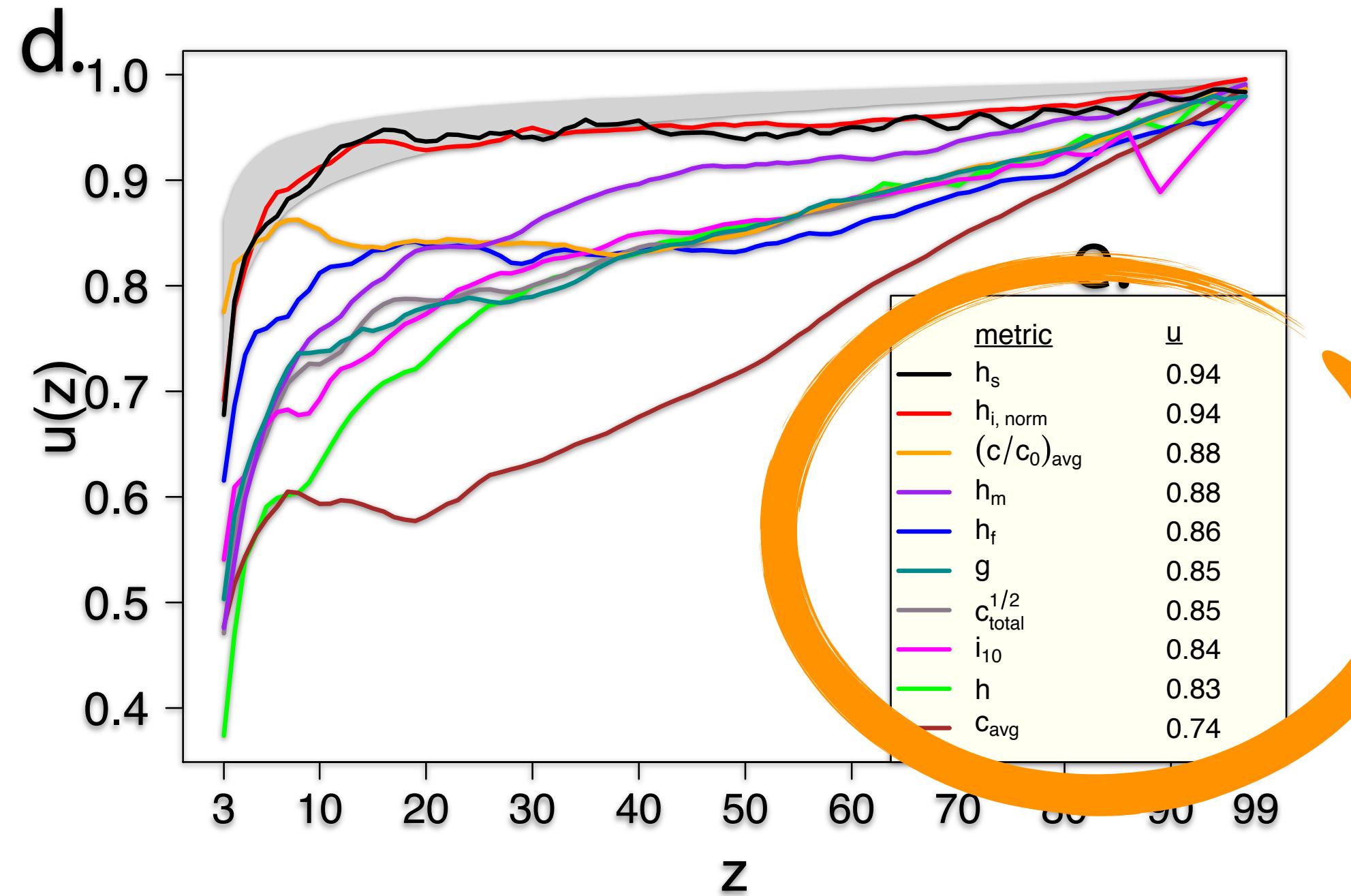
Which metrics are universal?



Universality Index

$$\bar{u}_m = \int_0^1 u_m(z) dz$$







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Networks & agents Network, NSF Award IIS-0811994





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