

RM LECTURE 1 & 2

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THE IMPACT FACTOR (I.F.)

Eugene Garfield

(1925 – 2017)

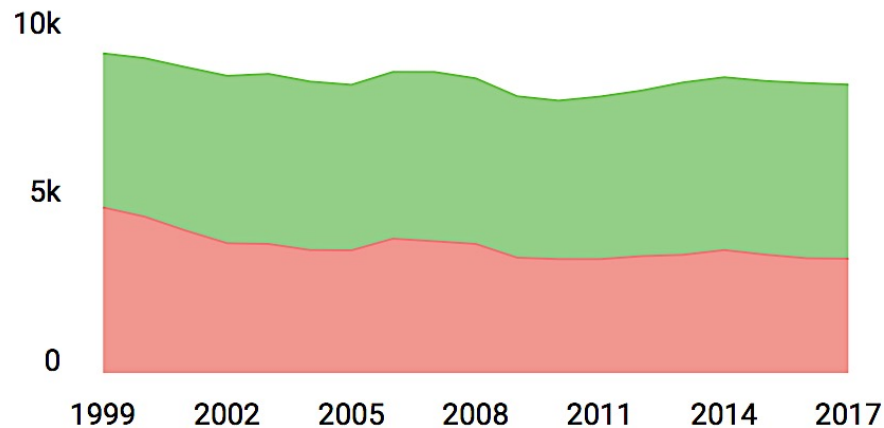
Introduced the impact factor
in 1963.



Source: <http://www.garfield.library.upenn.edu>

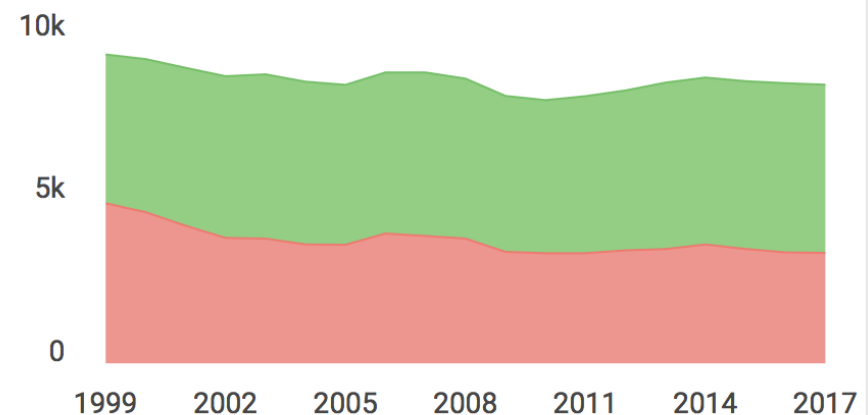
EVEN SCIENCE & NATURE...

Science



● Cited documents ● Uncited documents

Nature



BIBLIOGRAPHY DATABASES

- **Google Scholar**
 - Free
 - Indiscriminate
 - H5-Index

- **Clarivate Analytics ISI WOS**
 - Oldest commercial citation database
 - Institutionalized
 - Impact Factor

- **Scopus**
 - Introduced in 2004
 - Broader coverage than ISI
 - SNIP



PACKING RESEARCH IN A NUMBER!

○ **Bibliometrics**

- Impact Factor
- SNIP
- SJR
- H-5 Index
- ...

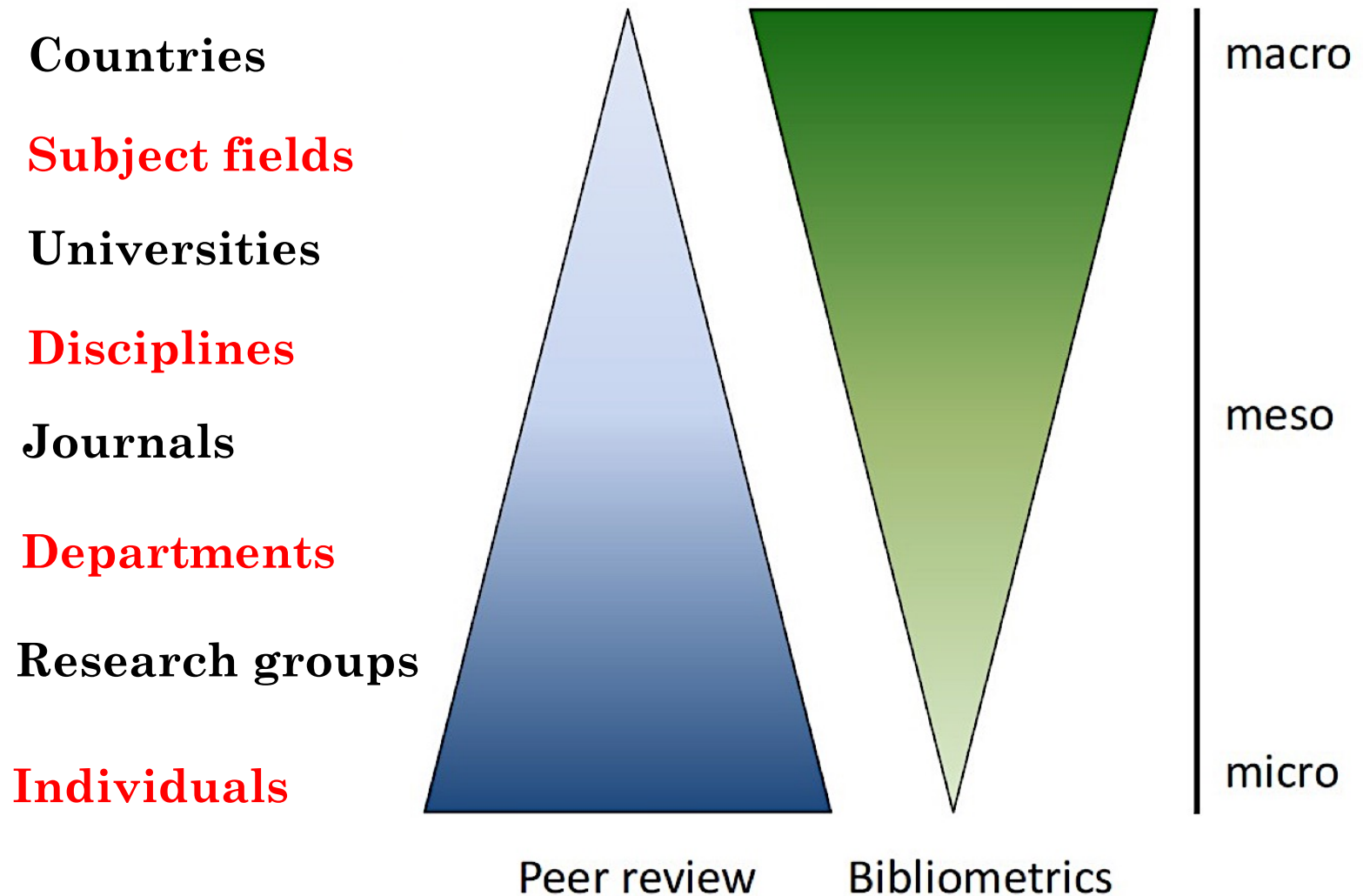


○ **Peer Review**

- Core ERA Rankings
- ABS Rankings
- Conference Rankings
- ...



THE WEIGHT OF QUALITATIVE VS QUANTITATIVE

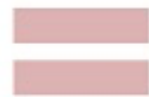


IMPACT FACTOR (IF)



Impact Factor

Total number of
times its articles
were cited
during the two
previous years



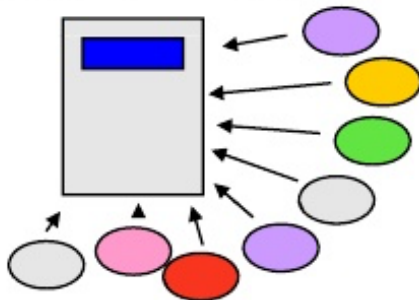
Total number of
citable articles
in the journal
during those
two years

A journal's
Impact Factor
for a
particular
year

SOURCE NORMALIZED IMPACT PER PAPER (SNIP)

- The **SNIP** measures contextual citation **impact** by weighting citations based on the total number of citations in a subject field. It's the ratio of 3 years Scopus based IF by Database Citation Potential.

1. Collect papers citing 1-3 year old papers in target journal in 2009



2. Collect reference lists of citing papers



3. Count number of references in citing papers to any (in any journal) 1-3 year old papers

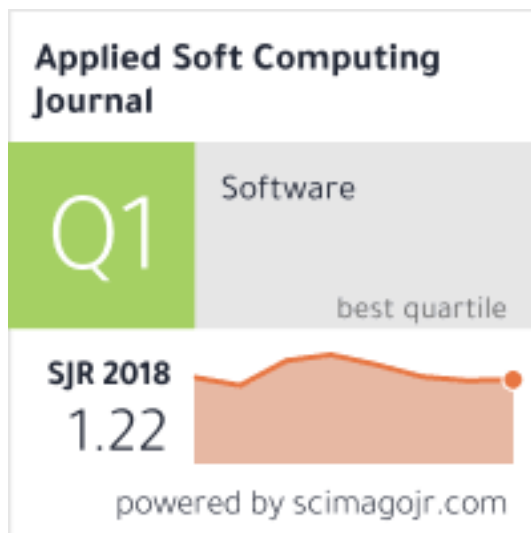


4. Citation Potential = average number of references to any 1-3 year old papers

SCIMAGO JOURNAL RANK (SJR)

- Based on the **eigenvector centrality** measure used in network theory. Such measures establish the **importance of a node** in a network based on the principle that connections to high-scoring nodes contribute more to the score of the node.

<https://www.scimagojr.com/>



SJR

Scimago Journal & Country Rank

Enter Journal Title, ISSN or Publisher Name

Home

Journal Rankings

Country Rankings

Viz Tools

Help

About Us

All subject areas

All subject categories

All regions / countries

All types

2018

☐ Only Open Access Journals

☐ Only SciELO Journals

☐ Only WoS Journals

Display journals with at least 0

Citable Docs. (3years)

Apply

Download data

1 - 50 of 31971

Title	Type	↓ SJR	H index	Total Docs. (2018)	Total Docs. (3years)	Total Refs. (2018)	Total Cites (3years)	Citable Docs. (3years)	Cites / Doc. (2years)	Ref. / Doc. (2018)
1 CA - A Cancer Journal for Clinicians	journal	72.576 Q1	144	45	127	3078	20088	103	206.85	68.40
2 MMWR. Recommendations and reports : Morbidity and mortality weekly report. Recommendations and reports / Centers for Disease Control	journal	48.894 Q1	134	3	12	559	1043	12	86.00	186.33

GOOGEL SCHOLAR METRICS

- Google Scholar Metrics provide an easy way for authors to quickly gauge the visibility and influence of recent articles in scholarly publications. Scholar Metrics summarize recent citations to many publications, to help authors as they consider where to publish their new research.
- <https://scholar.google.com>

Google Scholar

EXCELLENCE RESEARCH AUSTRALIA

- The Computing Research and Education Association of Australasia, CORE, is an association of university departments of computer science in Australia and New Zealand. The latest guide includes a total of **1630** conferences.

<http://www.core.edu.au/>

A* - 04%

A - 14%

B - 26%

C - 49%

Other- 8%



ASSOCIATION OF BUSINESS SCHOOLS

- A guide to the range, subject matter and relative quality of journals in which business and management academics publish their research. The latest guide includes a total of **1582 journals**.

<https://charteredabs.org/>



4* Tier
4 Tier
3 Tier
2 Tier
1 Tier



IMPACT FACTOR OBSESSION

Sans Francisco, The Declaration on Research Assessment (DORA)

“impact factor”
term per 100k papers

