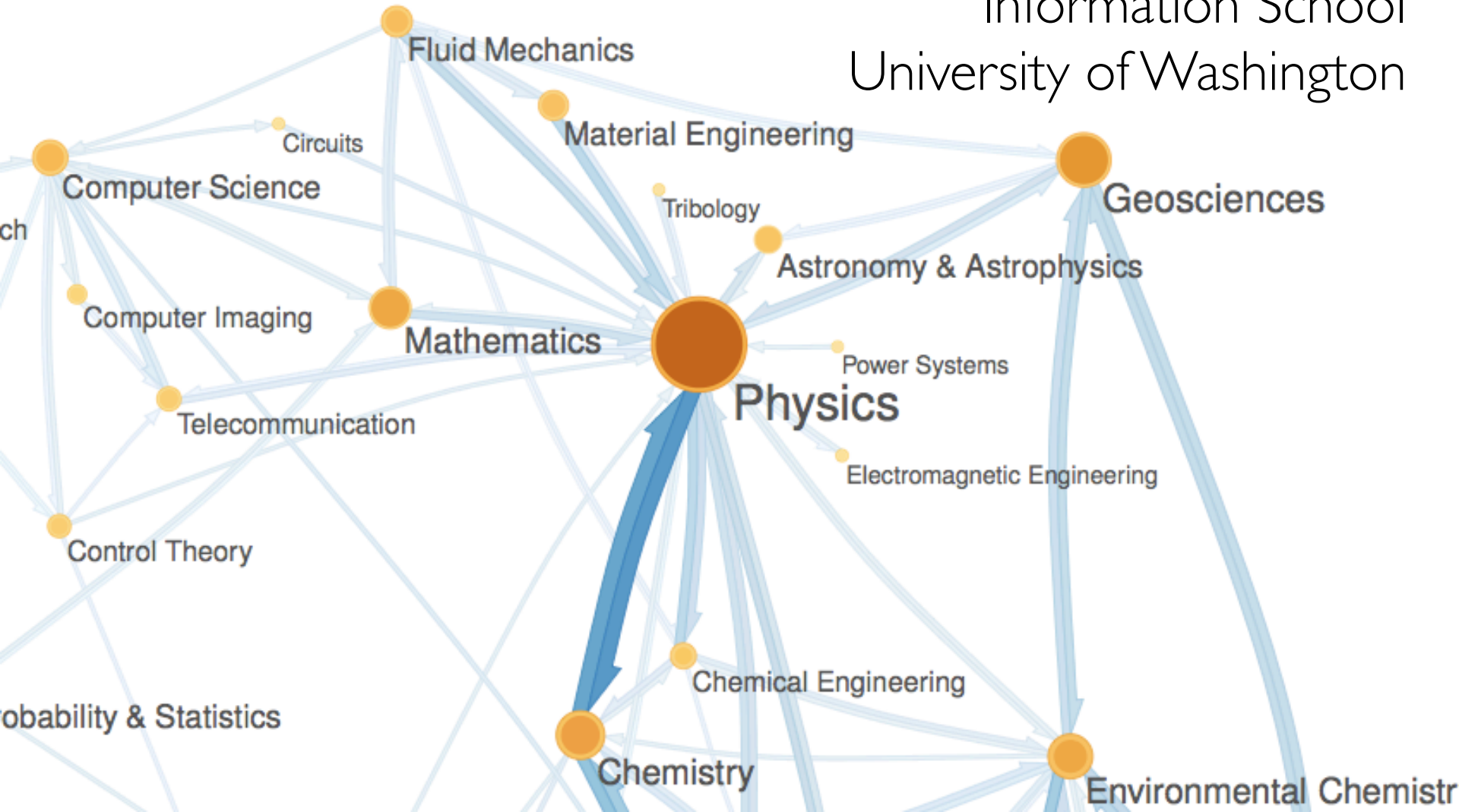
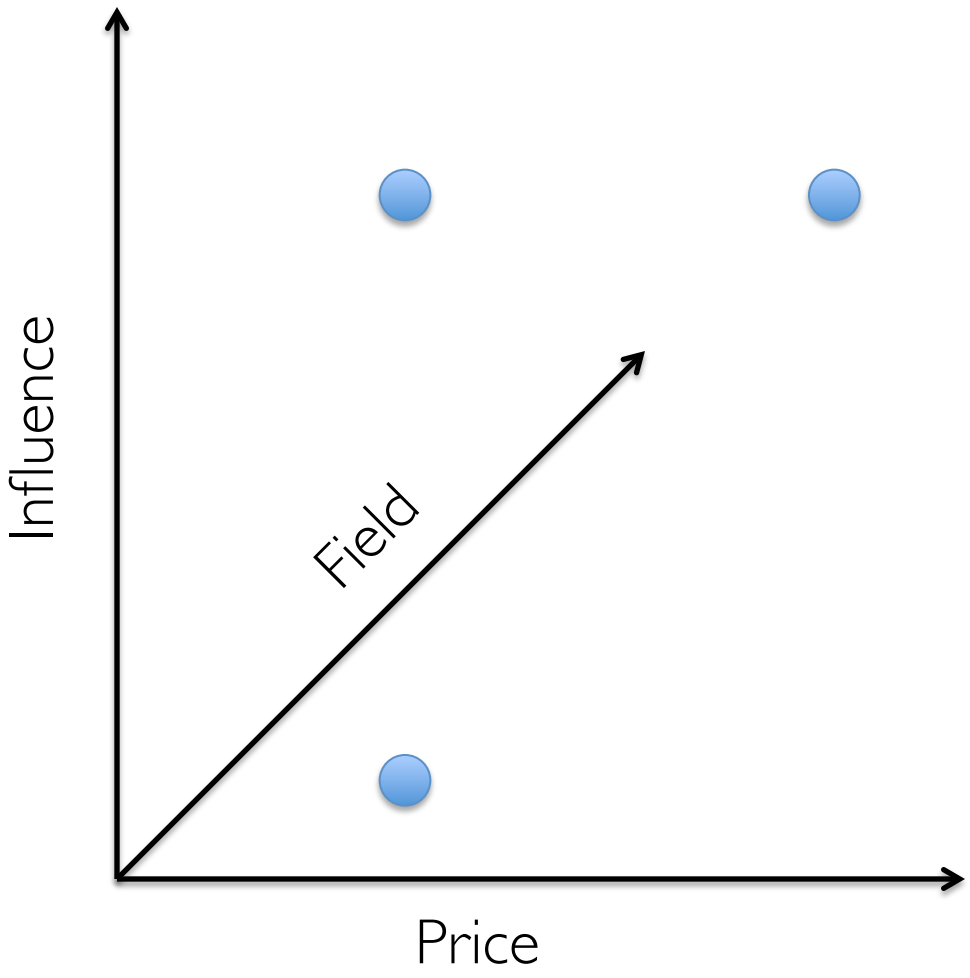
Article-level navigators (ALNs)

Jevin D. West
Information School
University of Washington

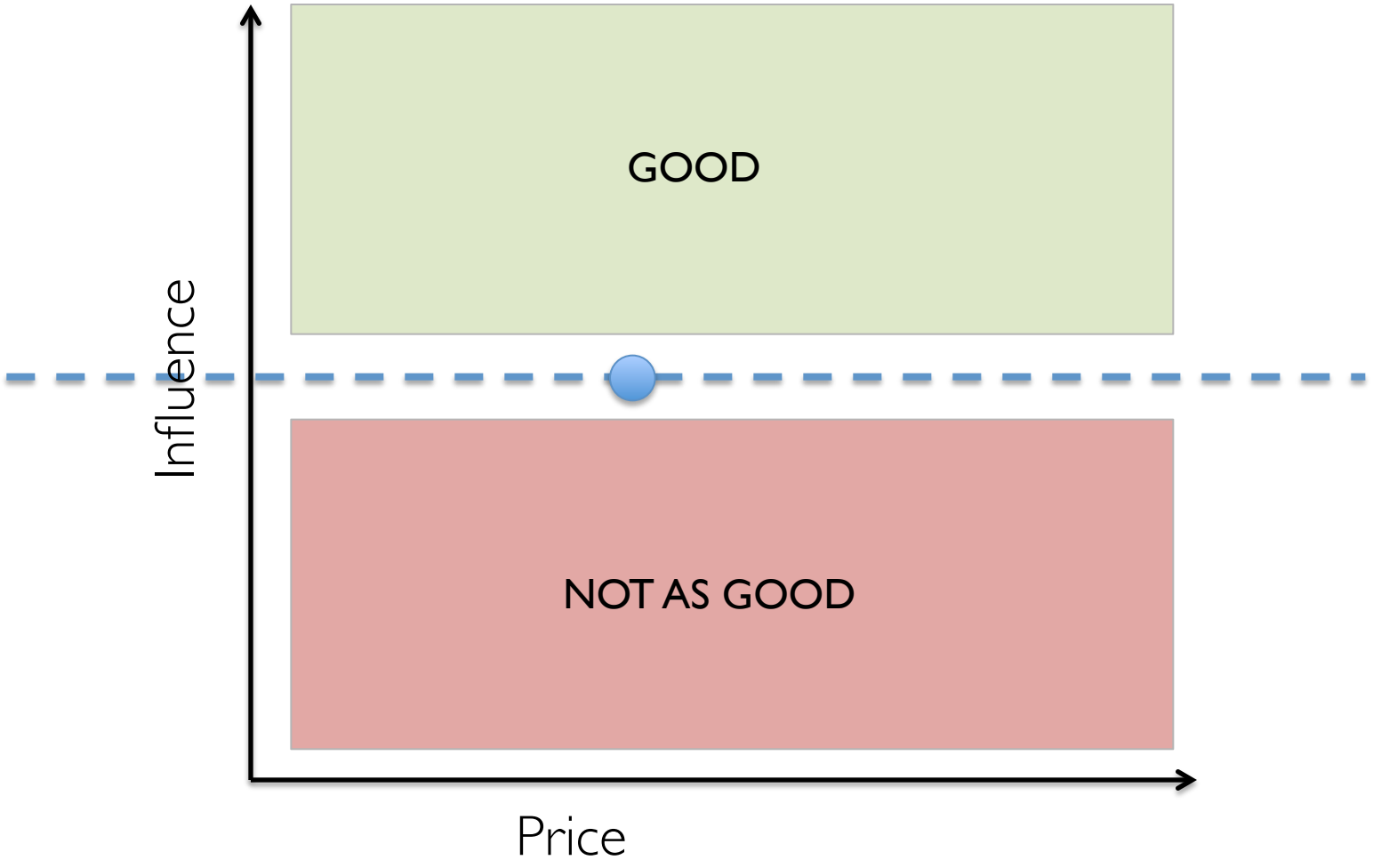


Which journals should I read/publish in?



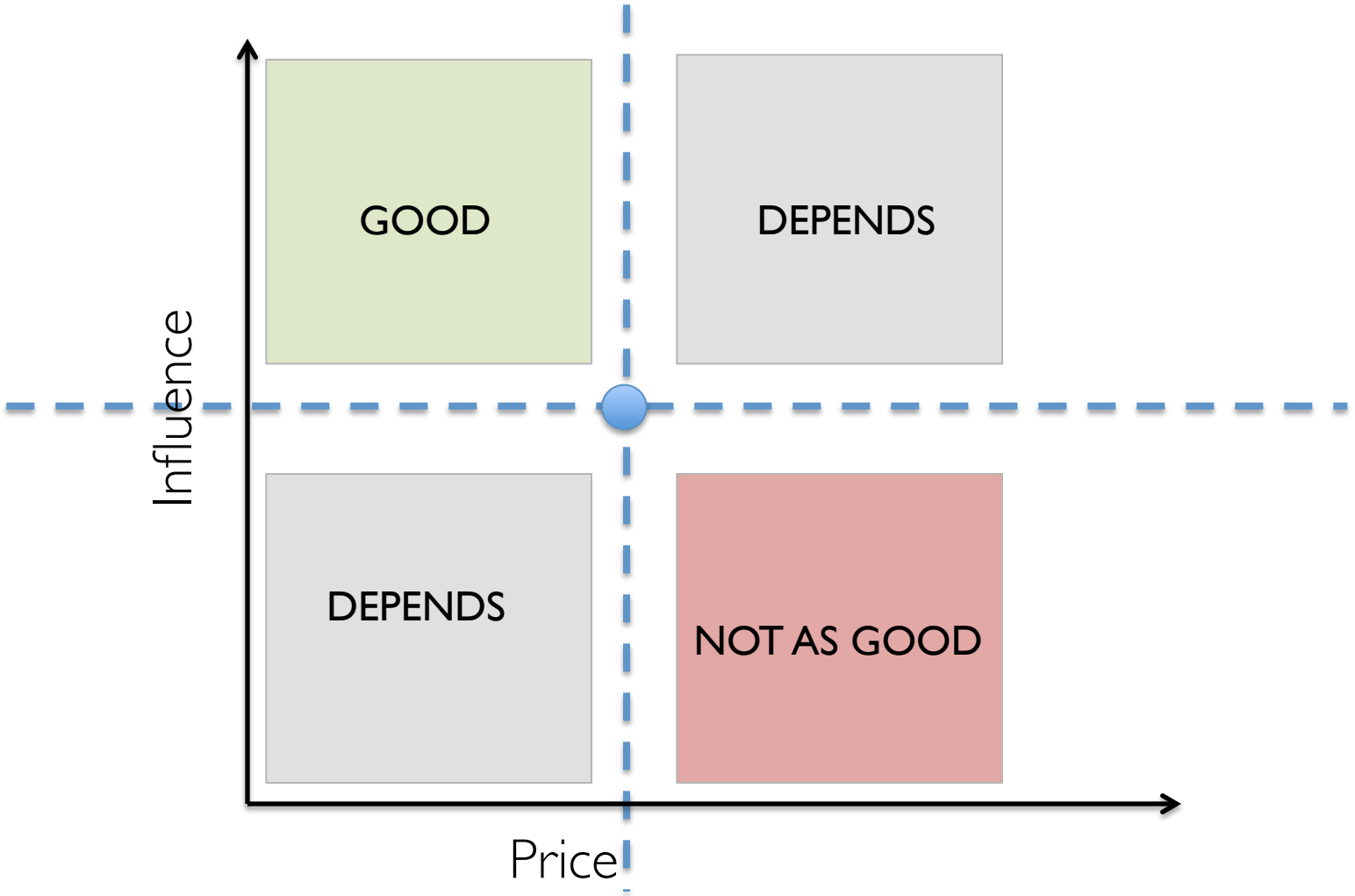
Are these journals different?

Which journals should I read/publish in?

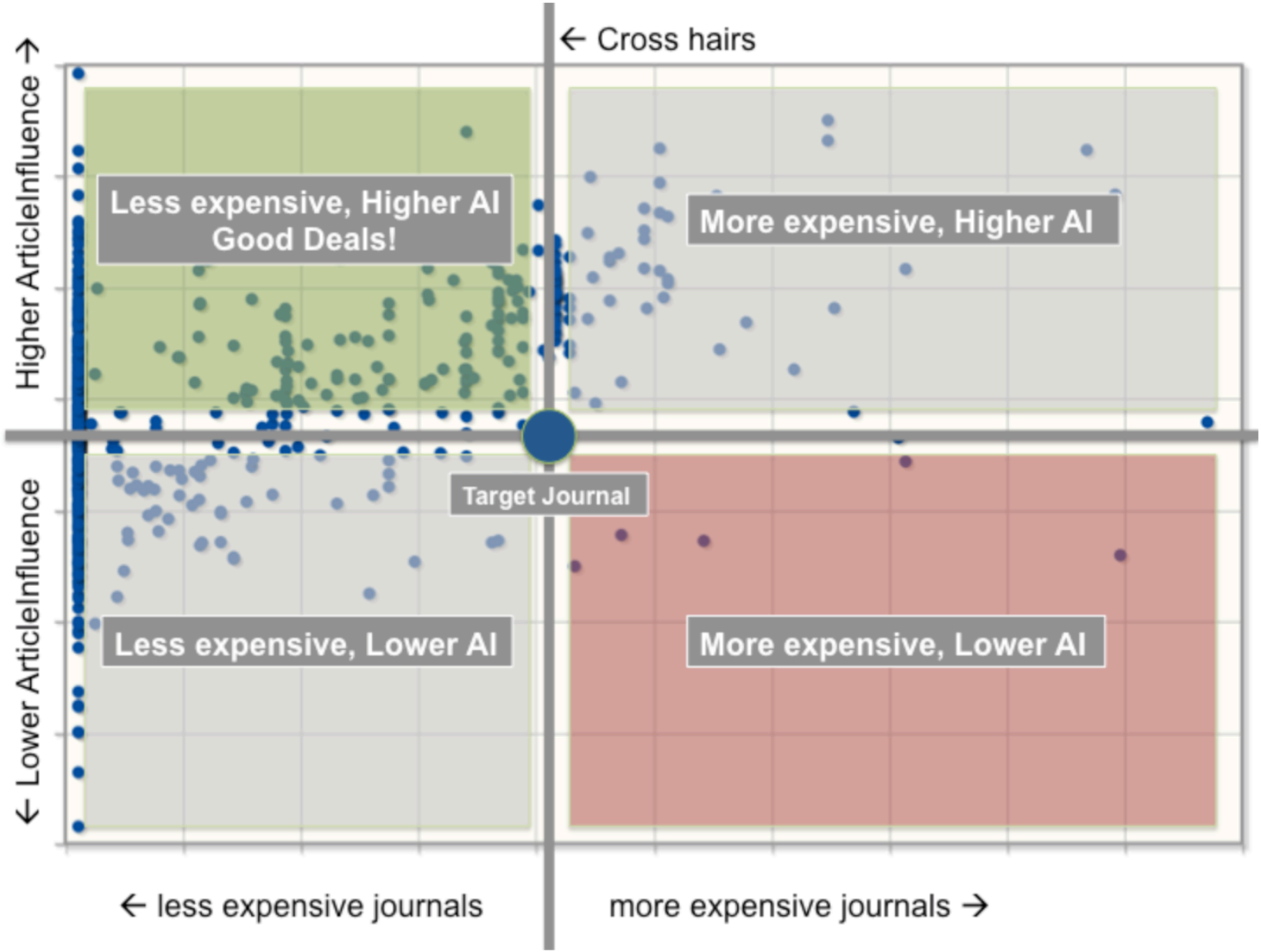


Which journals should I read/publish in?

Which journals should I read/publish in?



EIGENFACTOR – Cost Effectiveness

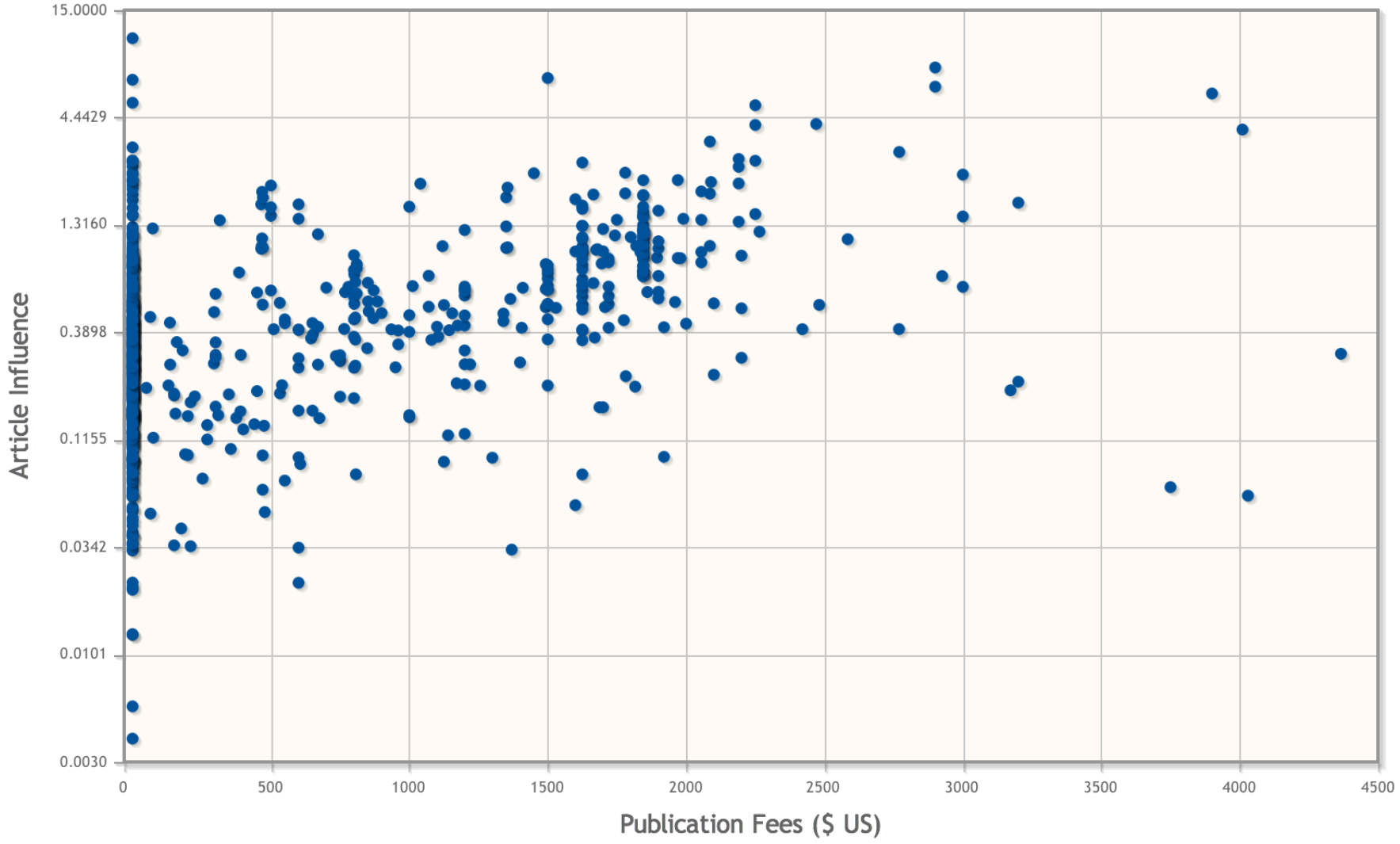


Cost Effectiveness for Open Access Journals

ALL FIELDS

Powered by Eigenfactor.org and journalprices.com

show all : fee-based OA : no-fee OA : NonISI OA



Open access *market*?

‘Alternative’ ALMs

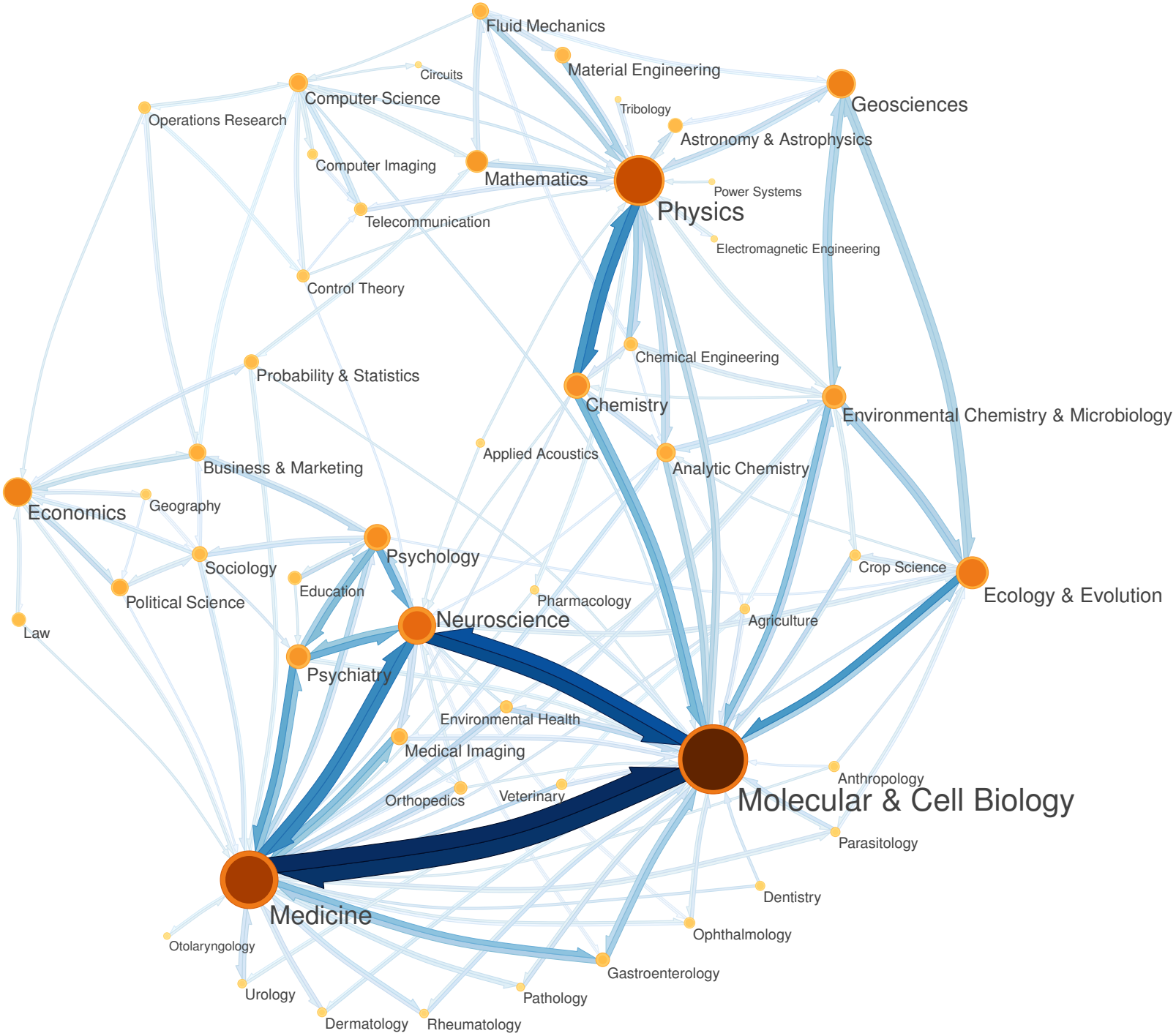
Cost Effectiveness

Interdisciplinarity

Translators

How can we use ALMs to improve *discoverability*?

ALMs → ALNs


Fluid Mechanics
Material Engineering
Circuits
Computer Science
Geosciences
Operations Research
Tribology
Astronomy & Astrophysics
Computer Imaging
Mathematics
Power Systems
Physics
Telecommunication
Electromagnetic Engineering
Control Theory
Chemical Engineering
Probability & Statistics
Chemistry
Environmental Chemistry & Microbiology
Applied Acoustics
Business & Marketing
Analytic Chemistry
Economics
Geography
Psychology
Crop Science
Sociology
Education
Ecology & Evolution
Political Science
Pharmacology
Neuroscience
Agriculture
Law
Psychiatry
Environmental Health
Medical Imaging
Anthropology
Orthopedics
Veterinary
Molecular & Cell Biology
Parasitology
Dentistry
Medicine
Ophthalmology
Otolaryngology
Gastroenterology
Urology
Pathology
Dermatology
Rheumatology

From Measuring to Prospecting

…at the *article* level

Article-level Navigators (ALNs)

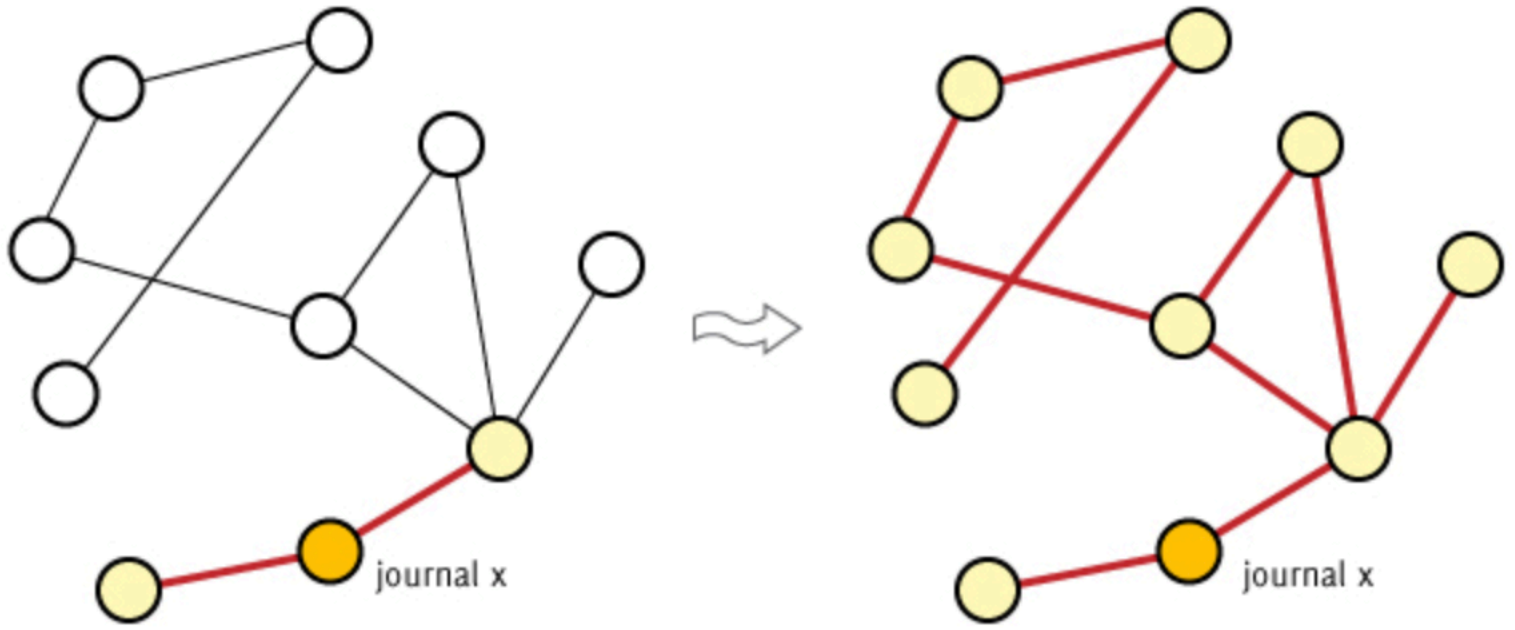
Filtering

Mapping

Recommendation

Prospecting

Pivots



most ranking algorithms

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Journal Summary List

Journal Title Changes

Journals from: subject categories EVOLUTIONARY BIOLOGY VIEW CATEGORY SUMMARY LIST

Sorted by: ArticleInfluence(TM) Score SORT AGAIN

Journals 1 - 20 (of 39) [1 | 2] Page 1 of 2

MARK ALL UPDATE MARKED LIST

Ranking is based on your journal and sort selections.

Mark	Rank	Abbreviated Journal Title (linked to journal information)	ISSN	JCR Data						*Eigenfactor*™ Metrics	
				Total Cites	Impact Factor	5-Year Impact Factor	Immediacy Index	Articles	Cited Half-life	*Eigenfactor*™ Score	*Article Influence*™ Score
☐	1	ANNU REV ECOL EVOL S	1543-592X	10653	10.161	17.176	0.133	30	>10.0	0.02416	8.322
☐	2	TRENDS ECOL EVOL	0169-5347	16830	11.904	17.188	1.913	92	7.4	0.06469	7.846
☐	3	SYST BIOL	1063-5157	7636	7.833	12.743	0.946	74	5.9	0.03104	4.668
☐	4	MOL BIOL EVOL	0737-4038	20661	7.280	6.846	1.259	263	7.0	0.08141	2.951
☐	5	AM NAT	0003-0147	21622	4.670	5.508	0.784	190	>10.0	0.04815	2.586
☐	6	EVOLUTION	0014-3820	25826	4.737	5.427	0.798	247	>10.0	0.06063	2.197
☐	7	BMC EVOL BIOL	1471-2148	2562	4.050	4.373	0.508	331	2.2	0.02196	1.888
☐	8	MOL ECOL	0962-1083	19960	5.325	5.966	1.506	403	5.5	0.06926	1.811
☐	9	PALEOBIOLOGY	0094-8373	2761	2.800	3.063	0.688	32	>10.0	0.00728	1.739
☐	10	CLADISTICS	0748-3007	2966	3.515	4.881	0.647	51	>10.0	0.00576	1.625
☐	11	J EVOLUTION BIOL	1010-061X	5691	3.471	3.757	0.767	180	5.0	0.02980	1.556
☐	12	EVOL DEV	1520-541X	1424	3.627	3.679	0.634	71	4.5	0.00879	1.513

Let's do an experiment…

Option A

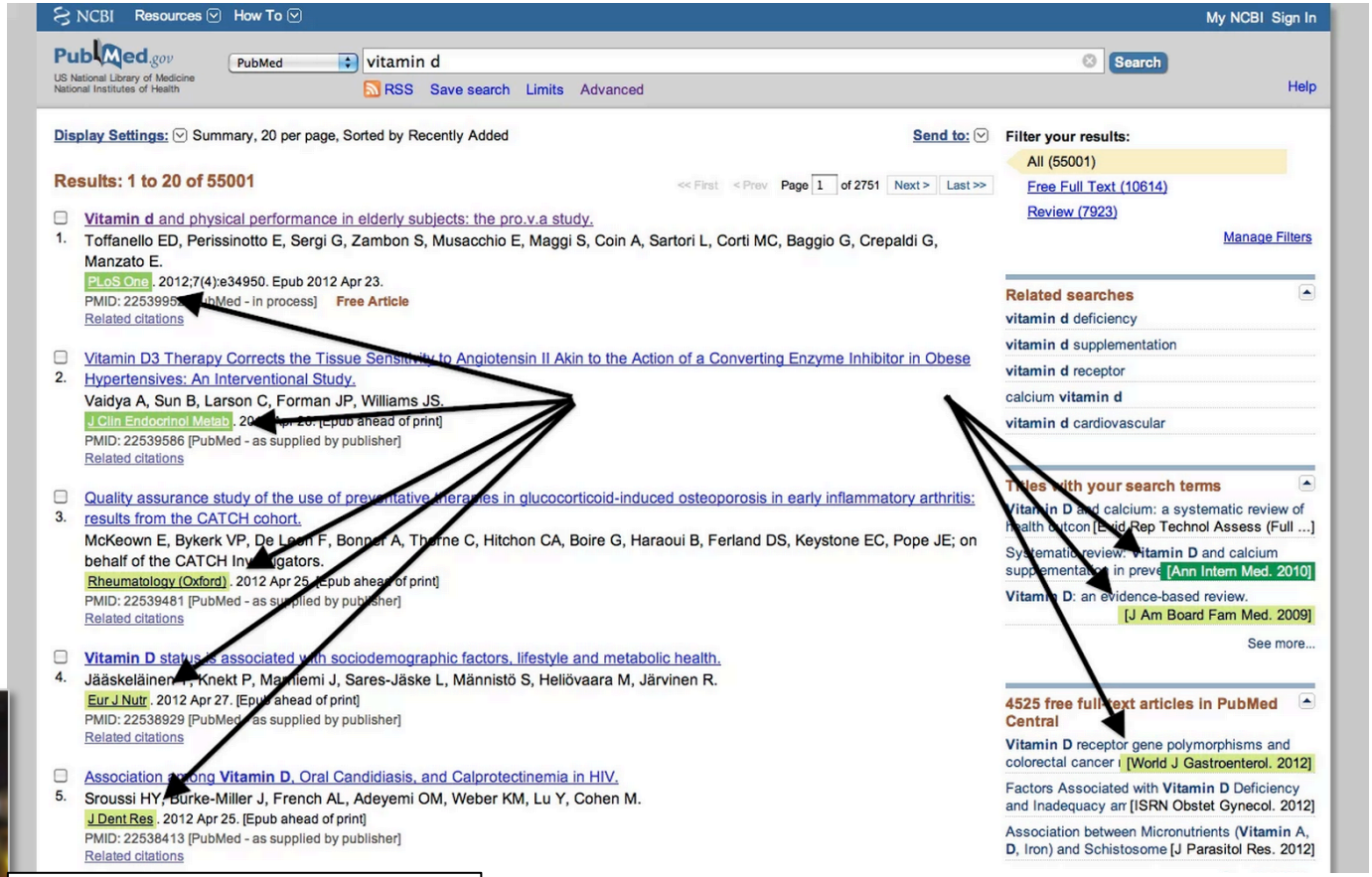
Rank	Journal	Eigenfactor
1	Proceedings of the Royal Society B – Biological Sciences	0.091
2	Philosophical Transactions of the Royal Society B	0.078
3	Ecology	0.073
4	Molecular Ecology	0.072
5	Ecology Letters	0.069
6	New Phytologist	0.065
7	Global Change Biology	0.061
8	Trends in Ecology and Evolution	0.052
9	Marine Ecology – Progress Series	0.051
10	Evolution	0.048

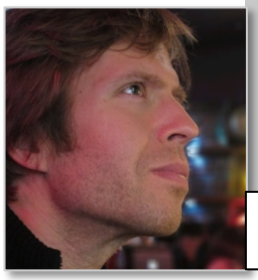
Option B

Rank	Journal	Eigenfactor
1	Proceedings of the Royal Society B – Biological Sciences	9.93
2	Philosophical Transactions of the Royal Society B	8.45
3	Ecology	7.88
4	Molecular Ecology	7.79
5	Ecology Letters	7.52
6	New Phytologist	7.08
7	Global Change Biology	6.62
8	Trends in Ecology and Evolution	5.68
9	Marine Ecology – Progress Series	5.52
10	Evolution	5.20

Filtering

Eigenfactorizer





Geoff Davis, Google

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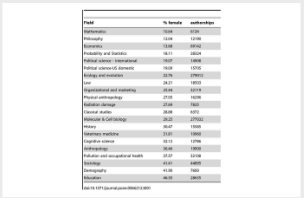
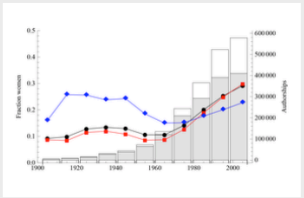
2,010 VIEWS 115 SHARES

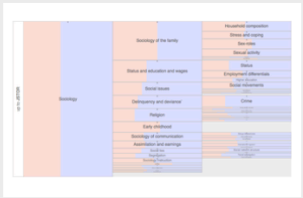
RESEARCH ARTICLE

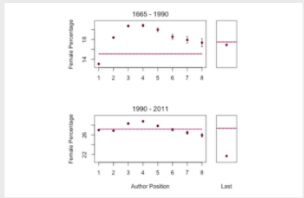
The Role of Gender in Scholarly Authorship

Jevin D. West, Jennifer Jacquet, Molly M. King, Shelley J. Correll, Carl T. Bergstrom









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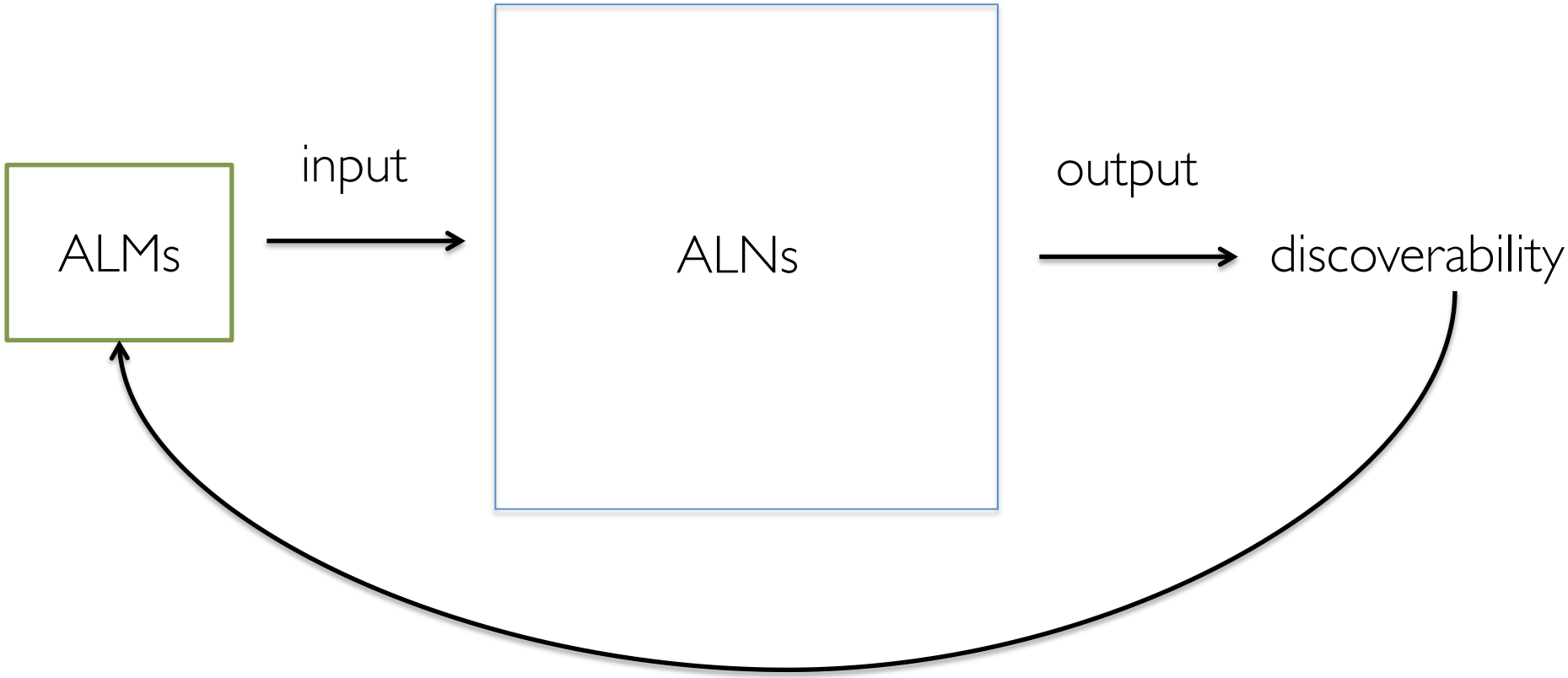
Electrical engineering
Chemical engineering
Molecular biology
Graphs


ALMs
input
ALNs
output
discoverability

Article-level Navigators (ALNs)

Filtering

Mapping

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Pivots

Recommendation

PLoS

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What do scholars actually follow?

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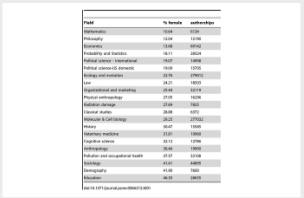

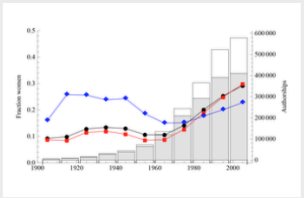

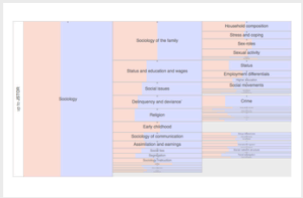

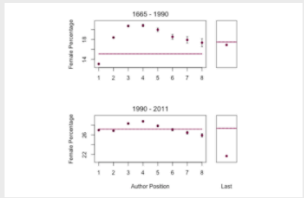

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Chemical engineering
Molecular biology
Graphs

Prospective

Author-level Eigenfactor

Can we predict ALMs before ALMs?

West JD, Jensen M, Dandrea RJ, Gordon GJ, Bergstrom CT (2013) JASIST

Pivots

40 million articles

Can we *auto-categorize* our content?

keyword pivoting, field pivoting

Summary

How can we use ALMs to improve *discoverability*?

ALMs → ALNs

Will journals survive in a strongly article-level market?

Author (ALMs) needs are different than *reader* (ALN) needs.

Acknowledgements

Carl Bergstrom

Ted Bergstrom

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