

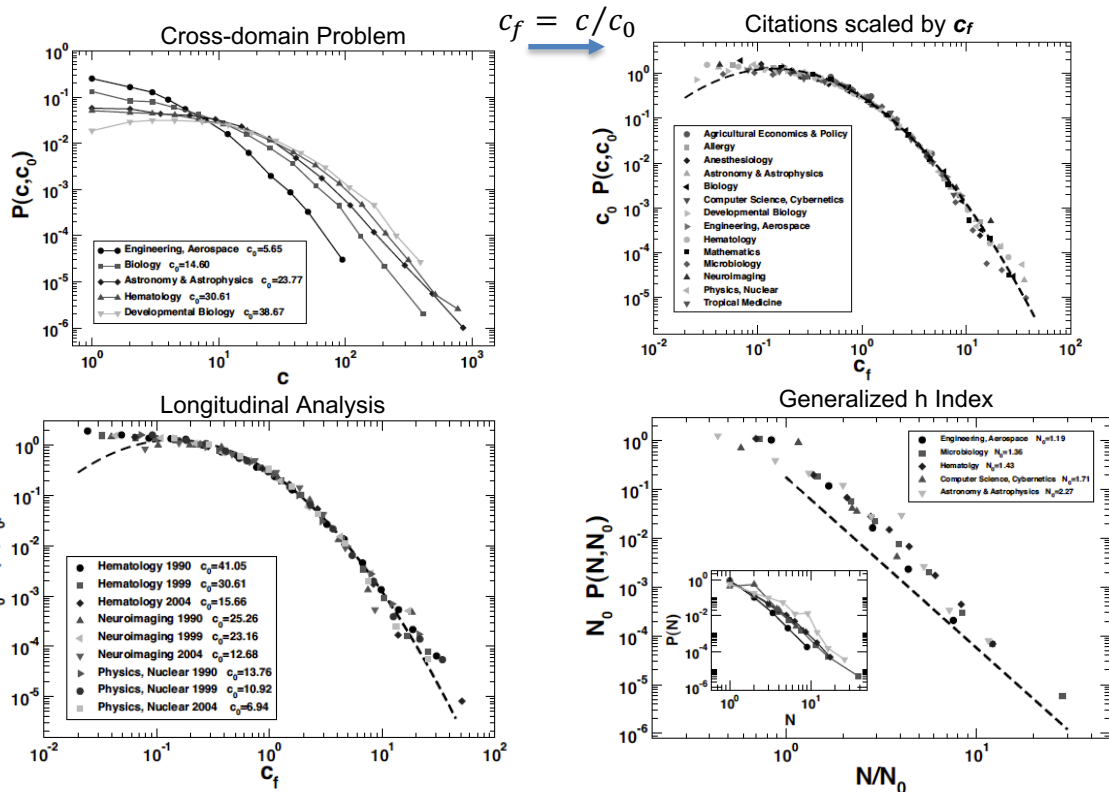
A Universal Measure of Scientific Impact

Problem

- Comparing academic success is difficult
 - Cross-domain imbalance
- Rescale citation count to c_f where:
 - $$c_f = \frac{\text{num. of citations}}{\text{avg. citations per field}}$$
- Longitudinal Validity?
 - Yes!

Towards a Generalized h Index

- h Index strongly affected by number of publications
 - Varies by discipline
- Rescale by avg. number of publications in discipline
- Can serve as an objective measure of scientific impact



Calculating Generalized h index (h_f):

- Order author's publications according to c_f (scaled citations)
- Calculate r/N_0 (rank/avg. # of pubs. for that discipline)
- $h_f = r/N_0$ for last publication that $r/N_0 > c_f$

