







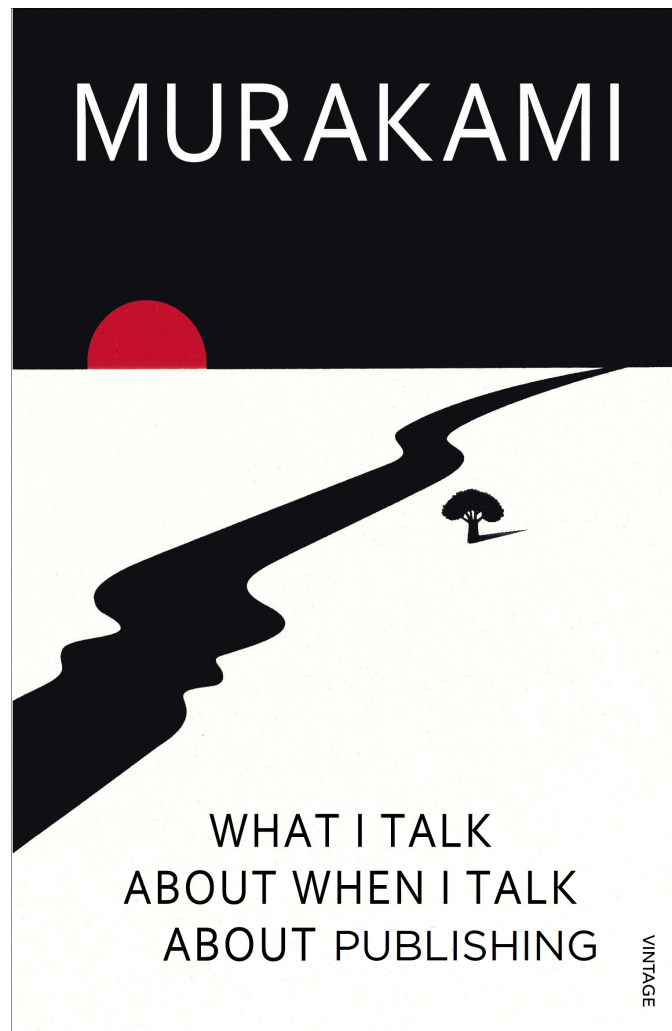
Meta-Journal Club: the knowledge dissemination models of the future

Motivation

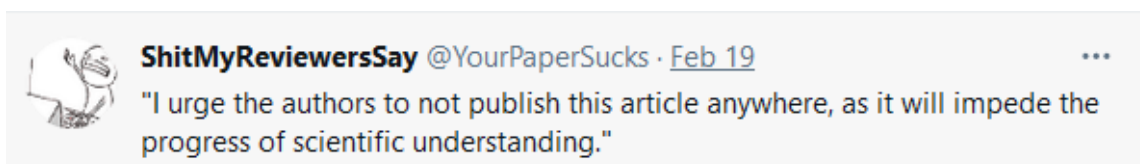
- Desire to become more active in the MetaResearch space:
 -  Where do we publish our work?
 -  What are we publishing (what do the artefacts of metaresearch look like?)?
 -  Where do we present our work?

 opportunity to imagine bespoke workshop, conference, and journal forms tailored to the needs of the field and its participants

The Traditional Model



1. Draft a manuscript
2. send it to a conference committee or editorial committee
3. peer review

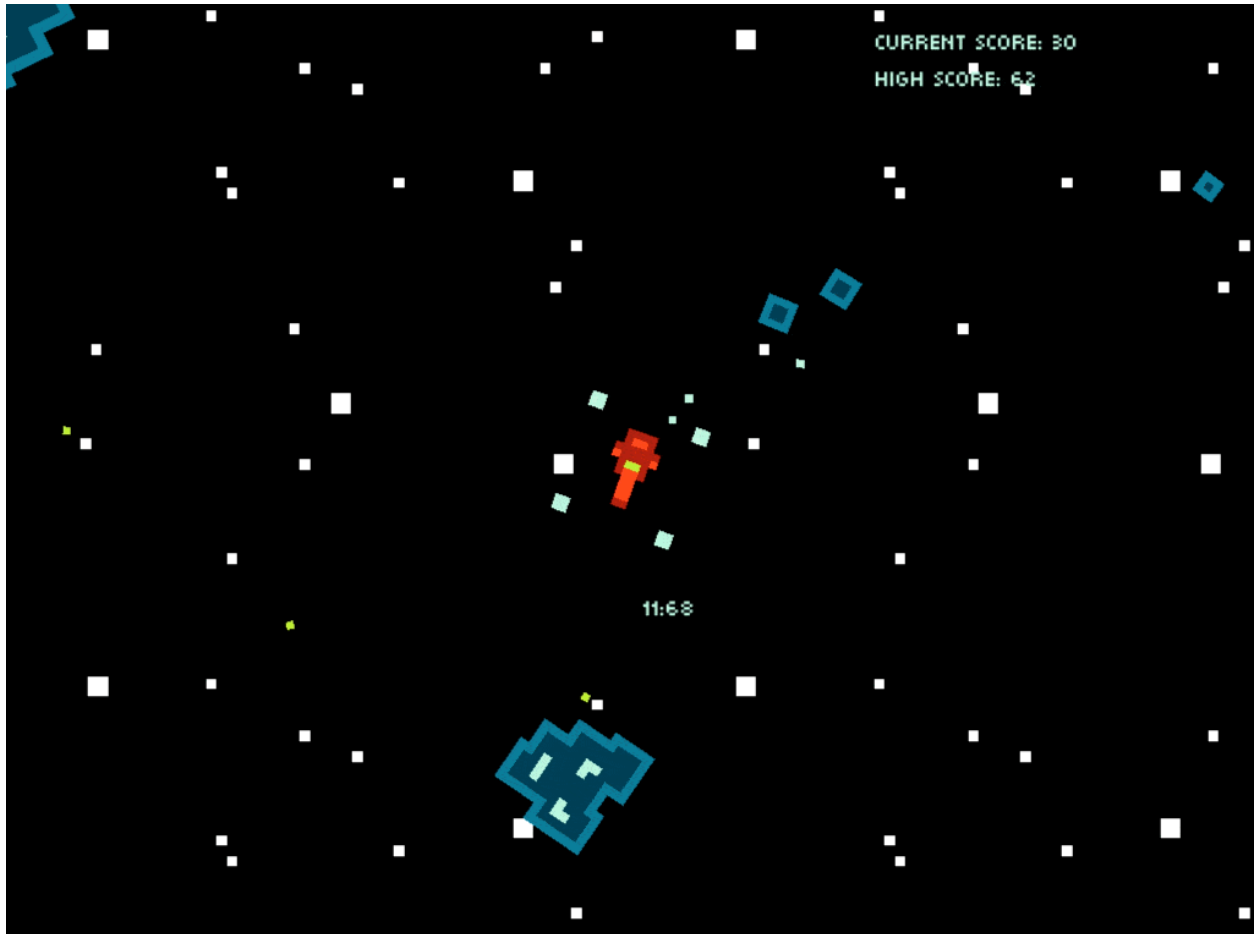




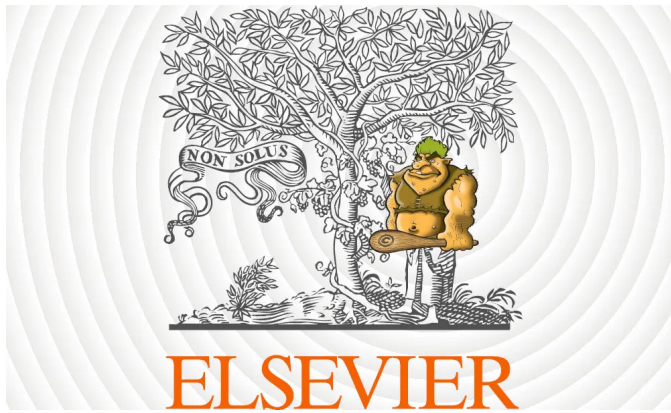
ShitMyReviewersSay @YourPaperSucks · Nov 12, 2020



'The text is overly expansive, desultory, and often diaphanous, so that the raison d'être of an overarching theoretical structure is neither pellucid nor convincing.'



4. publication in a journal or *Proceedings* volume



5. gatekeeping & gatecrashing



ELSEVIER

"When someone shows you who they are, believe them"

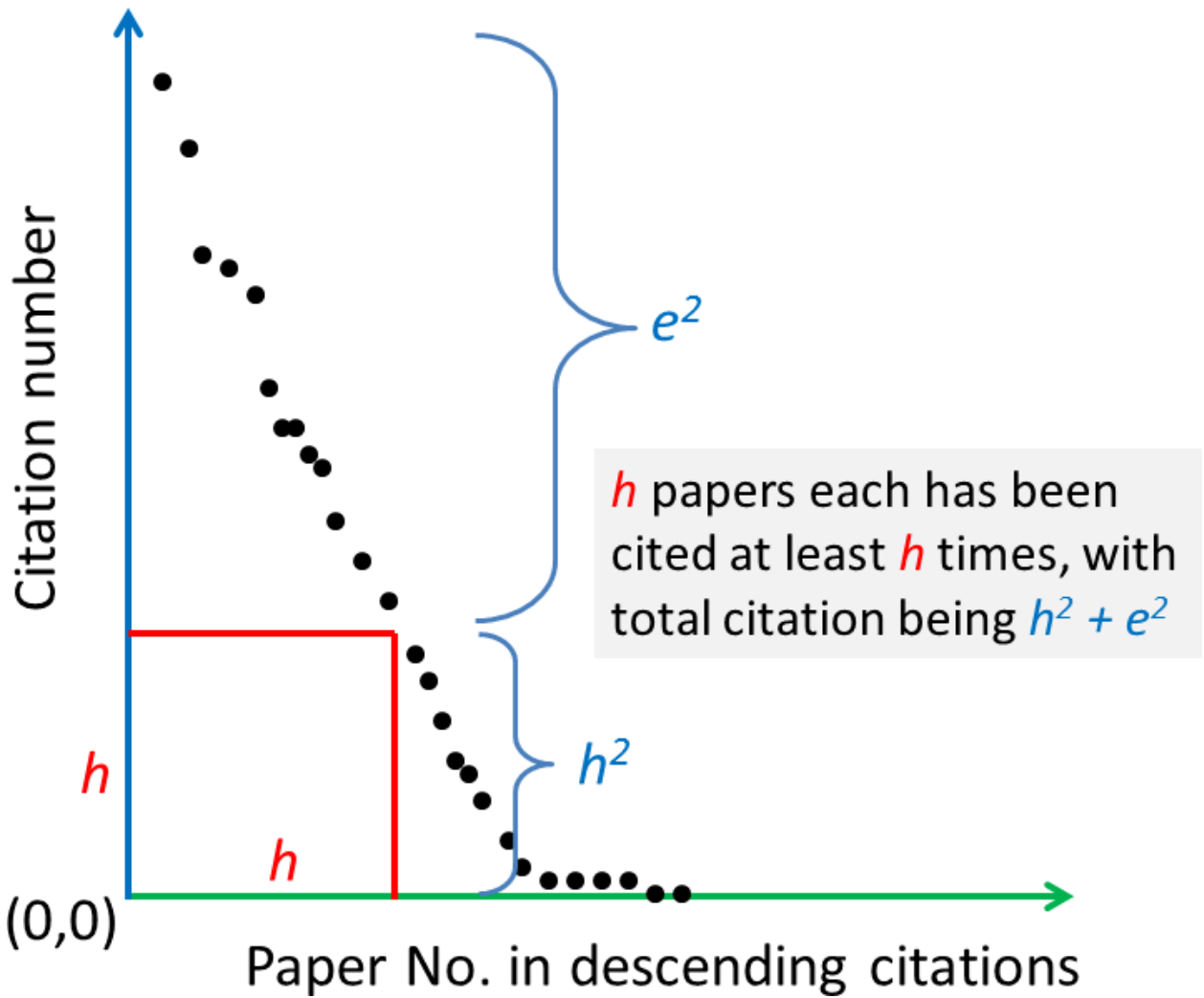
5. citation counter go brrr...?



NOOOOO you can't just use the same format for everything



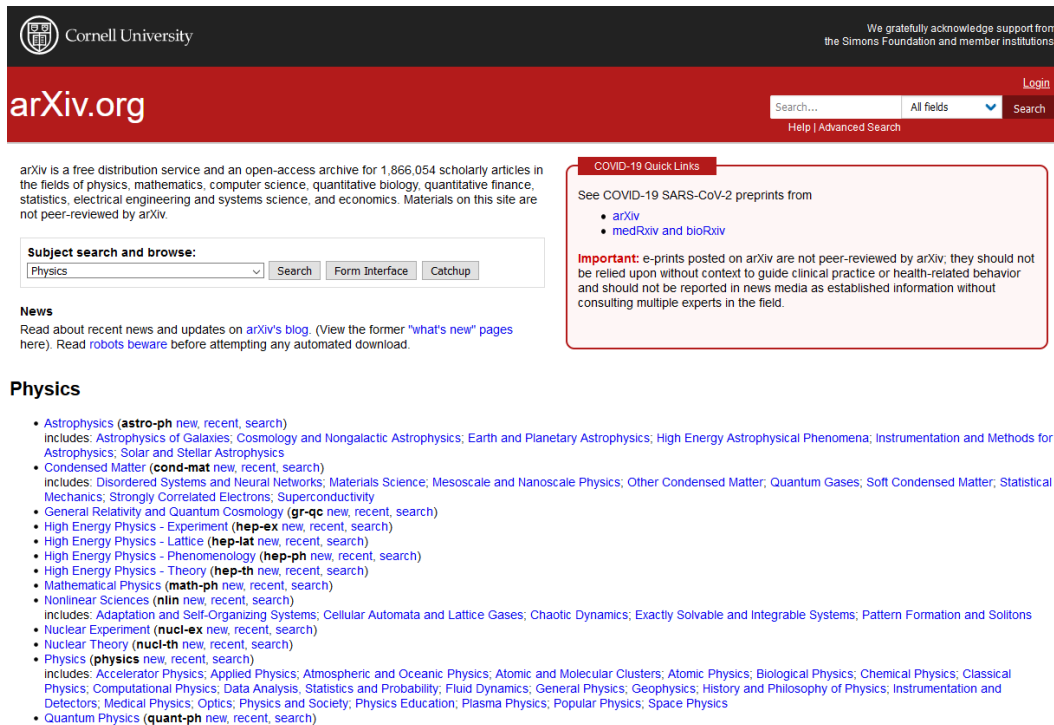
Haha wojak printer go brr brr



New Ideas

Preprint Servers & Overlay Journals

The ArXiv



The screenshot shows the arXiv.org website interface. At the top left is the Cornell University logo. The main header features the arXiv.org logo, a search bar with a dropdown menu set to 'All fields', and a 'Search' button. Below the header, there is a 'Subject search and browse:' section with a dropdown menu set to 'Physics' and buttons for 'Search', 'Form Interface', and 'Catchup'. A 'News' section follows, with a link to 'arXiv's blog'. A prominent red-bordered box on the right contains 'COVID-19 Quick Links' and an 'Important' notice: 'e-prints posted on arXiv are not peer-reviewed by arXiv; they should not be relied upon without context to guide clinical practice or health-related behavior and should not be reported in news media as established information without consulting multiple experts in the field.' Below this, a 'Physics' section lists various sub-fields with links to 'new', 'recent', and 'search' pages.

arXiv is a free distribution service and an open-access archive for 1,866,054 scholarly articles in the fields of physics, mathematics, computer science, quantitative biology, quantitative finance, statistics, electrical engineering and systems science, and economics. Materials on this site are not peer-reviewed by arXiv.

Subject search and browse:
Physics Search Form Interface Catchup

News
Read about recent news and updates on [arXiv's blog](#). (View the former "what's new" pages here). Read [robots beware](#) before attempting any automated download.

COVID-19 Quick Links
See COVID-19 SARS-CoV-2 preprints from
• [arXiv](#)
• [medRxiv](#) and [bioRxiv](#)

Important: e-prints posted on arXiv are not peer-reviewed by arXiv; they should not be relied upon without context to guide clinical practice or health-related behavior and should not be reported in news media as established information without consulting multiple experts in the field.

Physics

- **Astrophysics (astro-ph new, recent, search)**
Includes: Astrophysics of Galaxies; Cosmology and Nongalactic Astrophysics; Earth and Planetary Astrophysics; High Energy Astrophysical Phenomena; Instrumentation and Methods for Astrophysics; Solar and Stellar Astrophysics
- **Condensed Matter (cond-mat new, recent, search)**
Includes: Disordered Systems and Neural Networks; Materials Science; Mesoscale and Nanoscale Physics; Other Condensed Matter; Quantum Gases; Soft Condensed Matter; Statistical Mechanics; Strongly Correlated Electrons; Superconductivity
- **General Relativity and Quantum Cosmology (gr-qc new, recent, search)**
- **High Energy Physics - Experiment (hep-ex new, recent, search)**
- **High Energy Physics - Lattice (hep-lat new, recent, search)**
- **High Energy Physics - Phenomenology (hep-ph new, recent, search)**
- **High Energy Physics - Theory (hep-th new, recent, search)**
- **Mathematical Physics (math-ph new, recent, search)**
- **Nonlinear Sciences (nlin new, recent, search)**
Includes: Adaptation and Self-Organizing Systems; Cellular Automata and Lattice Gases; Chaotic Dynamics; Exactly Solvable and Integrable Systems; Pattern Formation and Solitons
- **Nuclear Experiment (nucl-ex new, recent, search)**
- **Nuclear Theory (nucl-th new, recent, search)**
- **Physics (physics new, recent, search)**
Includes: Accelerator Physics; Applied Physics; Atmospheric and Oceanic Physics; Atomic and Molecular Clusters; Atomic Physics; Biological Physics; Chemical Physics; Classical Physics; Computational Physics; Data Analysis, Statistics and Probability; Fluid Dynamics; General Physics; Geophysics; History and Philosophy of Physics; Instrumentation and Detectors; Medical Physics; Optics; Physics and Society; Physics Education; Plasma Physics; Popular Physics; Space Physics
- **Quantum Physics (quant-ph new, recent, search)**

BioRxiv

bioRxiv

THE PREPRINT SERVER FOR BIOLOGY

Advanced Search

COVID-19 SARS-CoV-2 preprints from medRxiv and bioRxiv

Subject Areas

All Articles

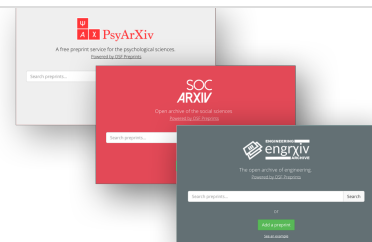
Animal Behavior and Cognition	Ecology	Paleontology
Biochemistry	Epidemiology*	Pathology
Bioengineering	Evolutionary Biology	Pharmacology and Toxicology
Bioinformatics	Genetics	Physiology
Biophysics	Genomics	Plant Biology
Cancer Biology	Immunology	Scientific Communication and Education
Cell Biology	Microbiology	Synthetic Biology
Clinical Trials*	Molecular Biology	Systems Biology
Developmental Biology	Neuroscience	

OSF Preprints

OSF Preprints

OSF Preprints


 <https://www.cos.io/products/osf-preprints>



Discrete Analysis

Discrete Analysis

Discrete Analysis is a mathematical journal with an emphasis on areas of mathematics that are broadly related to additive combinatorics.

 <https://discreteanalysisjournal.com/>

"What I think could work is something like a cross between the arXiv, a social networking site, Amazon book reviews, and Mathoverflow" - Tim Gowers

Pubpeer

PubPeer

Comments awaiting moderation ({{{totalComments}}}) Review last reports ({{{totalReports}}}) Review last email suggestions ({{{totalPendingEmails}}}) Last month's whitelisted comments ({{{totalWhitelistedComments}}})

 <https://pubpeer.com/publications/periodicals>

A **peeriodical** is a lightweight virtual journal with you as the Editor-in-chief, giving you complete freedom in setting editorial policy to select the most interesting and useful manuscripts for your readers. The manuscripts you will evaluate and select are existing publications—preprints and papers. Thus, a peeriodical replicates all the functions of a traditional journal, including **discovery, selection** and **certification**, except publication itself.

Peeriodicals

A peeriodical is a lightweight virtual journal with you as the Editor-in-chief, giving you complete freedom in setting editorial policy to select the most interesting and useful manuscripts for

 <https://peeriodicals.com/>



eLife

"publish, then review"

Questions

- how do you incentivize reviewing?
- how do you curate and give broad signals of quality?
- how do you get the useful information from reviews into the public sphere in a way that satisfies both reviewers and writers?
- does the Unjournal still work if there's more than one site (does it require some sort of centralization)?

The Unconference

What is a Conference For? 🙌



- line on your cv that proves you got past the bouncers

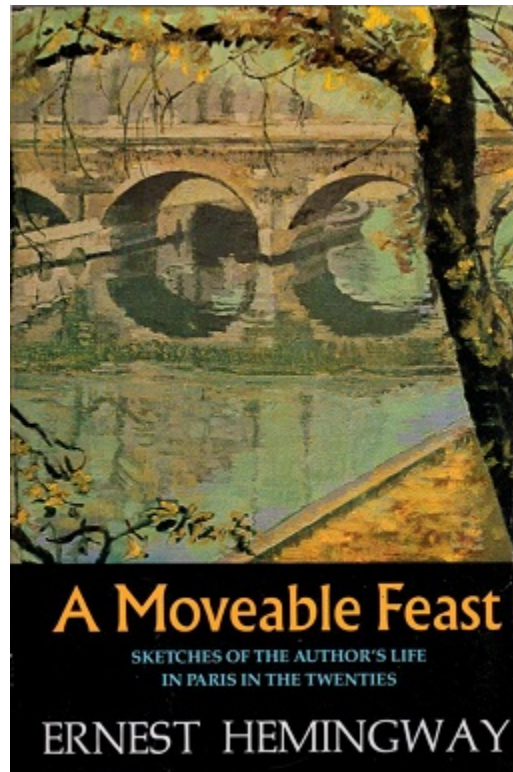
- the chance to present work in progress
- ! chance to talk with other "clubgoers" about ideas that are not ready for public consumption

Barath's idea

"what if there were an arxiv un-conference (probably per area), where people can do short talks about arxiv papers; those interested will go read the papers. Peer review then moves (effectively) from time of publication to time of citation. This also decouples the roles of publication and community gathering that exist today with CS conferences "

+ a "human mining reward" for **curation**

A Moveable Feast



What tools do we need to build our Moveable Feast?

Notes from Journal Club discussion:

- community formation important
- how do you make it fun? optimize for fun-ness?
- NBER - science of science funding conference:
 - real-time critique of papers while authors in the room
 - papers written in open, high quality, but take time to publish
- potential problems if conference scope too broad - community formation, lonely researchers at the edge of the venue like wallflowers at a dance ...
- things that run too long are definitely not fun

- how to incentivize conciseness and clarity?
- a journal with a character limit?
- pico-reports?
- how can we make micropubs more micro - what's in between a micropub and a database entry?
- science fair in gather.town?
- how can you publish a citable graph that describes your motivation?
- aggregate stuff, aggregate authorship
- add a license to your graph to help with authorship and reuse rights
- you need a group of humans or a machine to ensure quality
 - how much of this can be automated?
 - you can't really spot errors at the boundaries of a field until you have solved much of that field
 - can a student be a reviewer? how expensive is reviewer training & screening?
 - where do we register these things (micropublications, unjournal articles)? are we going to use dois forever?
 - arxiv doesn't use dois - they have arXiv IDs
 - computable graph could aggregate CIDs raw data → composed modules → publication

From Cindy Wu:

- Where will researchers register their work? What is the spiritual successor to DOI?
- How do we build tooling to keep people kind and honest in synchronous and asynchronous discussions?
- Looking beyond the PDF, what types of mediums need to be supported? Is there a finite list of file types?

- How can the community incentivize conciseness and clarity? Why has the academy failed to incentivize conciseness and clarity?
- What dictates when peer-review starts? Can peer-review be initiated at the time when another human finds the work useful? (A decade could elapse between time of publication and start of peer-review)
- The working papers model is pervasive in the economics community? Where else is it used? What makes researchers love it? What makes researchers hate it?
- In a future where anyone can produce scientific artifacts (like art, music, code) what will be the role of the curator? What makes a great science curator? Could curation of science be a full-time job?