

Future of publishing

an individual view

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Themes

- **Who** am I?
- **What** are the forms of publishing: past, present and future?
- **What** are the economic models of publishing that exist or will exist?
- **What** should be the involvement and influence of mathematicians?

Who?

- Nalini Joshi
- *Chair* of National Committee for Mathematical Sciences
- *President* of the Australian Mathematical Society at the time when the Australian Research Council initiated journal rankings for a research evaluation exercise.

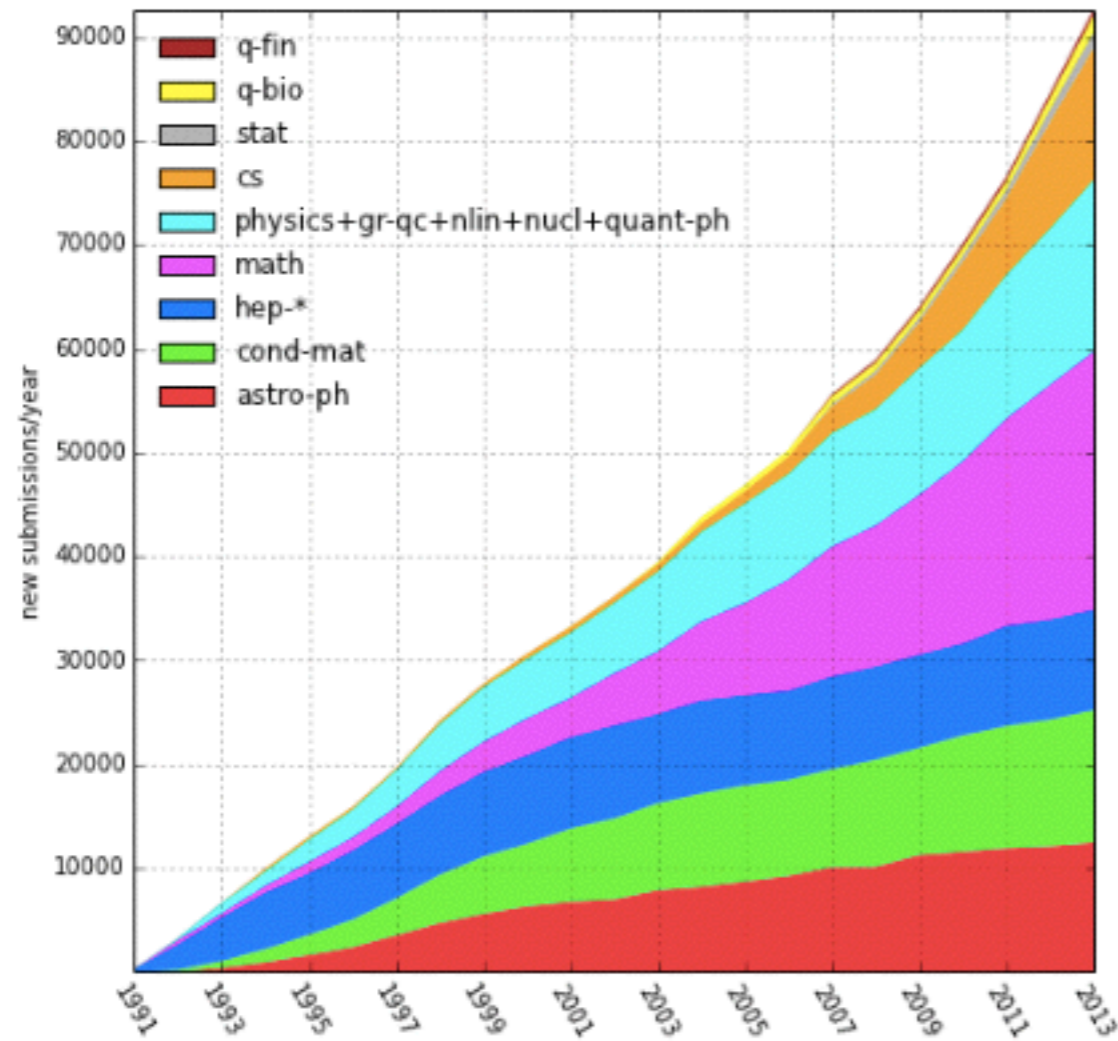
Publishing

- **Validation:** originality, correctness and value
- **Services:** copy editing, proof reading, production design, usage statistics
- **Other Benefits:** advantage of being in good company, discoverable, stable, longevity

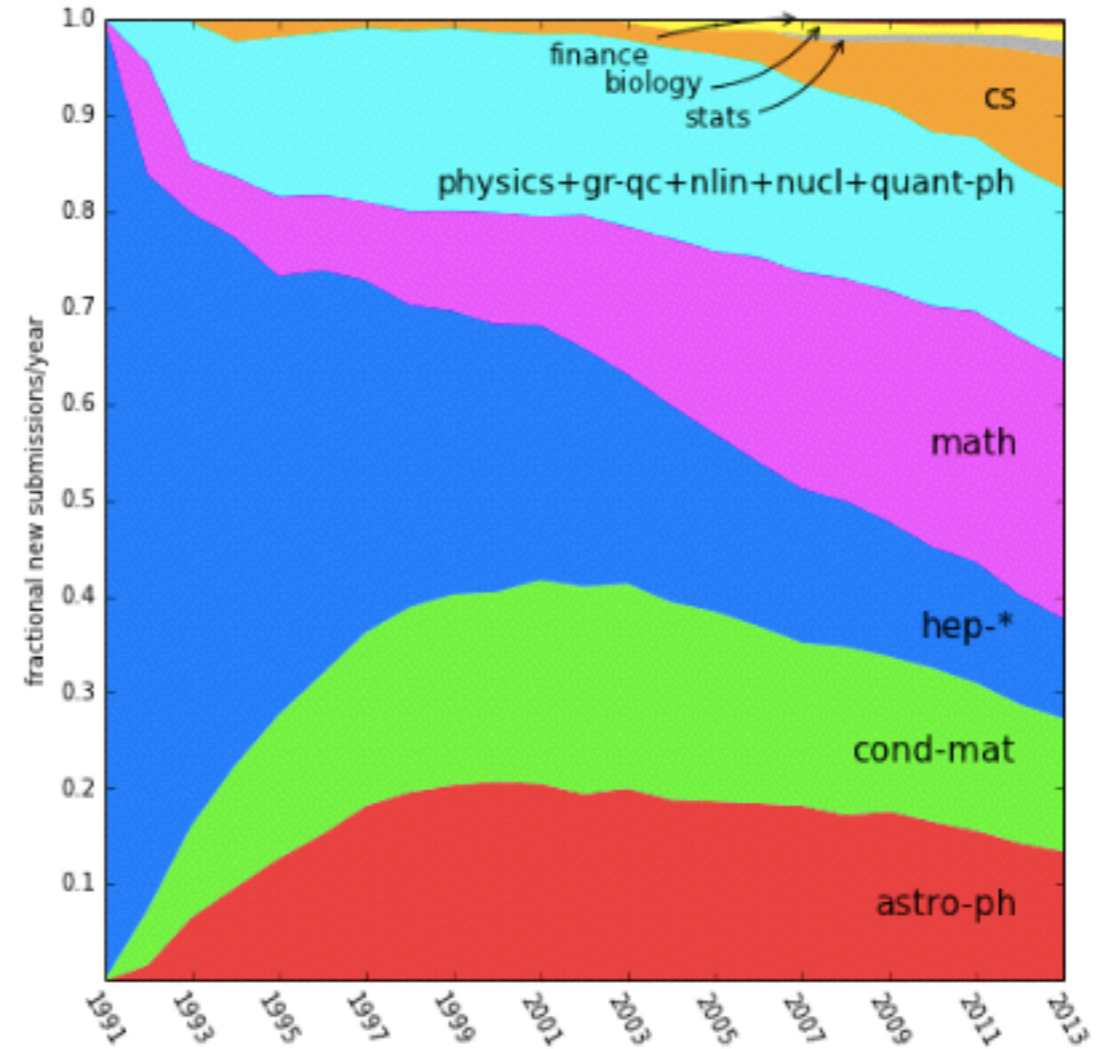
Forms of publishing

- **Digital**: Almost all access to papers and books now through electronic sites and media
- Number of new **ArXiv** math submissions is accelerating
- **Availability** of results required by many funding agencies
- Discussion and collaboration growing through sites such as **MathOverflow**, **Polymath**
- Sharing content through social media **t, f, g+, in**

ArXiv



New Submissions per year



New Submissions/all submissions per year

from arXiv.org/help/stats/2013_by_area/index

Economic models

- **Current** models: print, hybrid, open access, arXiv overlay, bundling, e-books, restricted copyright
- **Moving** window of free access to published papers, after n years
- **Problems** with OA: reluctance to move to author-pays model, possible loss of longevity of mathematical knowledge
- To choose how to go forward, we need to decide: *what do mathematicians want?*

Involvement & influence

- **Traditional** involvement: refereeing, editing, reviewing
- **Forgotten** issues: gate-keeping, cliques, diversity, encouraging growth of new areas
- **Newer** forms: moderated commentary on reviews, papers, commenting through social media
- **Actively** making a case against naive usage of bibliometrics
- Do we need a **publishing charter?**

Possible Charter

- **Allow** “unbundled” subscription to individual journals, individual sections of journals or individual articles?
- Moving window of **free access** to published papers, after no more than 5 years
- Keep **track** of and **report** numbers on country, gender of authors and fields of mathematical publications on a regular basis
- Report on **evaluation** mechanisms used around the world that affect mathematicians.