

THE PUBLISHING ECO-SYSTEM AND FORCES DRIVING CHANGES

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- 1. The eco-system in Computer Graphics
- 2. The forces pushing for evolution
- **3.** An empty niche; how to fill it?





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The eco-system in Computer Graphics

Why Computer Graphics?

- Interesting eco-system
- Has been experimenting early, and a lot
 - (also, I happen to know it well)

Siggraph, the elephant in the room

- Shapes everything we do, including other conferences
- Monoculture: ecologically unsafe
- Attempts to reduce its influence





A (short) history of (some) experiments

Before 1992: Siggraph was issue 3 of Computer Graphics
(a journal)

1992-2001: Siggraph is just a conference

Probably trying to reduce its influence

Didn't work

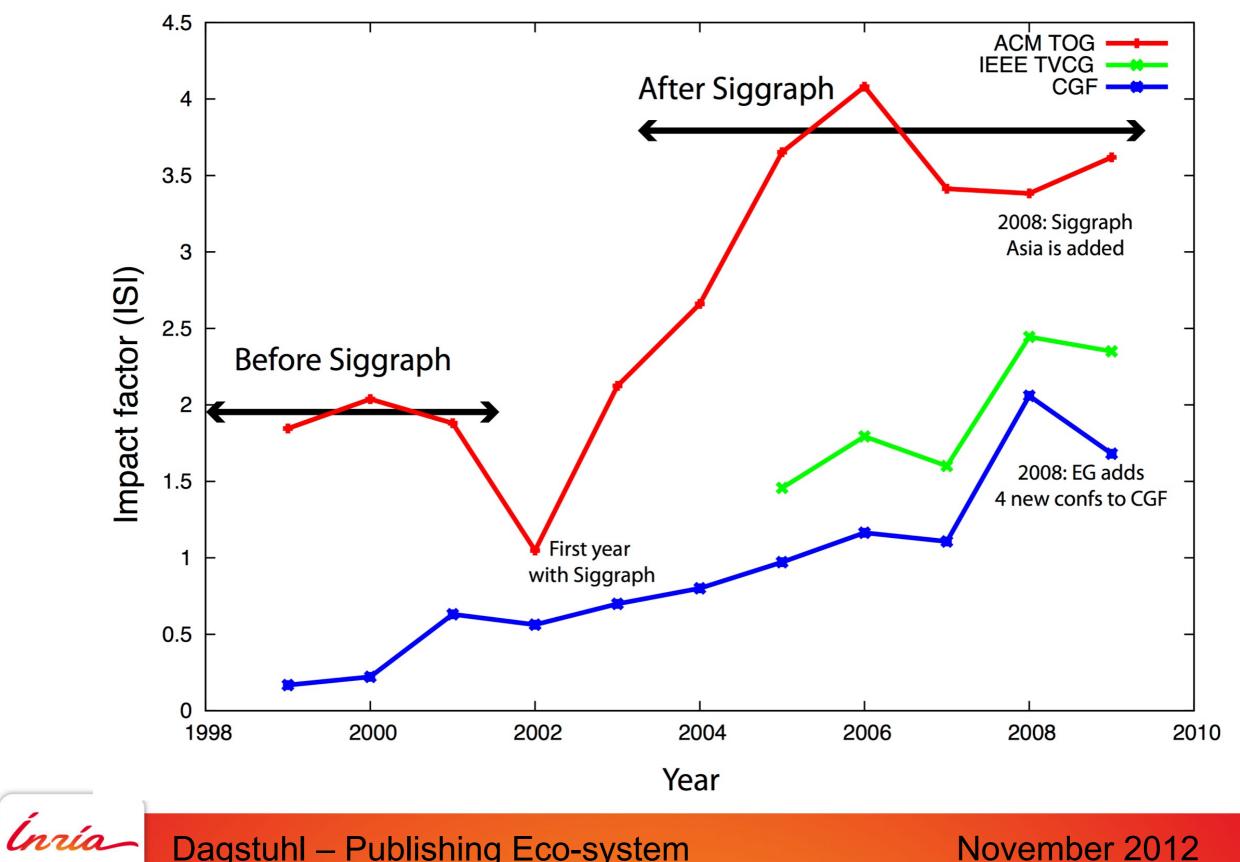
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2002: agreement between Siggraph and ACM TOG

- Siggraph becomes issue 3 of ACM TOG
- Double review system
- TOG speeds up its review/publishing cycle
- "reject for Siggraph, accept at TOG" for borderline papers
- Can present TOG papers at Siggraph
- Experiments with review system: double blind, conflicts, tertiary, rebuttal, discussion board...

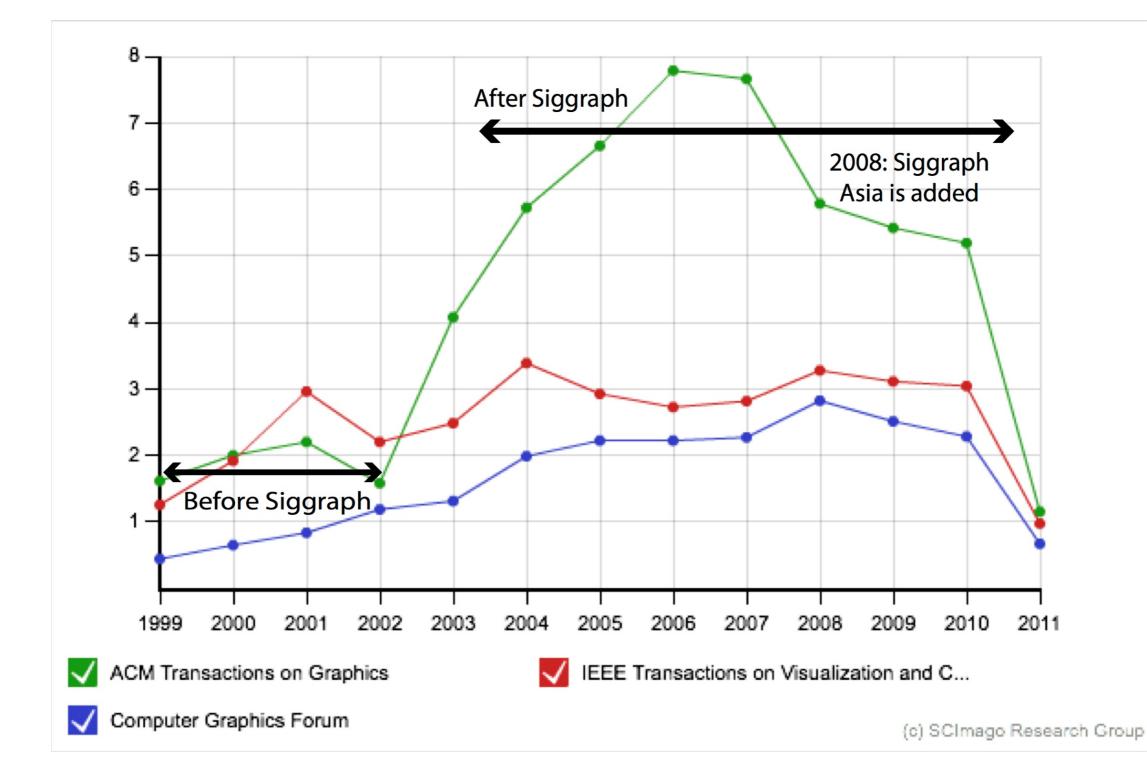
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An interesting result (ISI)



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An interesting result (Scopus)



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2012: state of the eco-system in CG

Journal papers can be presented at a conference

- Agreement between conference and journal
- Author asks, conference chair decides
- Separate sessions or mixed with regular conf papers
- Major conferences are issues of a journal
 - Few holdouts, mainly because two associations/publishers
 - Was helped by electronic publication
 - Minor conferences: select papers published in journals
- Exit possibility for papers
 - Rejected at the conference, accepted (w. minor rev) at the journal
- Faster review cycle for the journals
 - First decision in 4 months
 - Publication in 12 months

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Forces pushing for evolution

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Open-Access mandates

The power of the community

The industry

Social networks



Open-Access mandates

Work by US government employees is public domain
(small influence, because universities are private/state)

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Funding agencies push for OA:
NIH, UK government, European Union
Universities & research institutes push for OA:
Harvard, MIT, Princeton, Stanford...

- Researchers like OA:
 - More citations

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Re-use by community, industry

Open-Access mandates

Different motivations:

Ethical

- Efficiency (medical research)
- Financial (publishers too expensive)
- Benefit for academics

Different kind of OA:

- Green, Gold...
- Embargo/immediate
- Institutional repository/larger repository
- Extra services for academics (web page generator)

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The power of the community

Read papers accepted at a conference, before the conf

- Something we'd all like to do
- With a Green OA publisher & a search engine: easy
- Researchers started doing this in CG and publish their results
- November 2009: cease-and-desist letter from ACM
- Strong show of support from the community (including conf chair)
- Agreement found within a week
- Eurographics/Wiley-Blackwell
 - Green OA with 12 months embargo
 - Nobody respected the embargo
 - 2010: embargo lifted, becomes Green OA

It probably helped that ACM & EG are associations



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The industry

Research in CS has a strong connection with the industry

- Algorithms are implemented, tested
- Use by industry = another metric for papers
- Strong research centers (MSR, Intel...)
- Connections between academia and industry (both ways)
- 2011: 50% of Siggraph papers had at least one author from industry

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- Possibly specific to Computer Science
- Industry has its own demands:
 - Focus on things-that-work
 - Fast in development/review cycle
 - Early adopters (sometimes *before* publication)

Social networks

Social networks connect industry and academia

very strong in CG industry (CS ?)

- Connects and empowers the community
- Oiscussion of papers before/after publication
 - "hey, you should read that"
 - "I wonder why they didn't do it that way"
 - fast dissemination
- Connects readers and authors:
 - "Well, we tried it, but it didn't work"
- A little like paper discussion at a conference

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- More powerful/interesting
- Discussants feel more freedom to talk

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An empty niche in the eco-system

Igentiate 1990s: "Perfect paper: submit to conference. Imperfect paper: submit to journal"

- Fast reviewing + publication, highly selective (confs)
- Better chances of accept + nurture, but slow pipeline (journal)

2000s: convergence between journals and conferences

- Conference papers are also journal papers
- Journals have fast review cycle (< 12 months)
- Papers are rejected because nurturing would take too long

2010s: who will take the time to nurture papers?

An empty niche in the eco-system

- Industry: wants fast publication & validation
- Researchers: want fast publication & validation
- Little venues for "imperfect" papers
 - Too original, poorly written, hard to explain, wrong venue...
 - "Revise and resubmit" takes time
 - Papers often end up in OA (e.g. as tech reports)
- Combine forces: the e-journal
 - Publish first (through OA), review later
 - Review by journal committee, comments by the community
 - Reviews and comments can be made public
 - Readers can bring attention to a paper

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An empty niche in the eco-system

e-journals:

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- Papers accepted for publication get a stamp (on the paper page)
- List of accepted papers on journal site/portal
- Requirements for Open Archive system:
 - Versatile, ready to experiment
 - Supplemental material (pictures, code, videos)
 - Comments system, with response and ranking
 - Versioning system for papers (minor/major revision)
- Requirements for e-journal Committee:
 - Strong emphasis on scientific quality (must build trust)

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- Nurturing papers through revisions
- Avoid negative incentives

Thank you



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