The tension between academ knowledge production and online pe production

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Peer Production

Mass-online commons-based peer production

From Free Software to Wikipedia and beyond

Main features:

- Produsers: users as producers
- Decentralized system meritocracy
- Copyleft: right for distribution
- Open access and free flow of information
- Scalability
- Quality

Towards a more open Science?

Science was not intrinsically open in the beginning (i.e. *Secrecy Imperative*)

Openness as a historical/contingent outcome of changes in the patronage system (Paul David)

Open Science Movement.

- more open science is desirable
- present openness is in danger

Importing Peer Production mechanisms:

Open publication (i.e. OA journals, arXiv)

Data sharing / open notebook science

Citizen Science



Galileo 1564-1642



Newton 1642-1727



Huygens 1629-1695



Lavoisier 1743 -1794

New collaboration tools

Polymath Project



Timothy Gowers (Cambridge University)

Gowers's Weblog

Mathematics related discussion:

« Questions of procedure

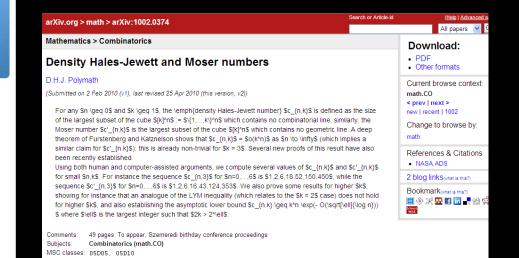
Why this particular problem? »

A combinatorial approach to density Hales-Jewett

By gowers

Here then is the project that I hope it might be possible to carry out by means of a large collaboration in which no single person has to work all that hard (except perhaps when it comes to writing up). Let me begin by repeating a number of qualifications, just so that it is clear what the aim is.

1. It is *not* the case that the aim of the project is to find a combinatorial proof of the density Hales-Jewett theorem when k=3. I would love it if that was the result, but the actual aim is more modest: it is $\it either$ to prove that a certain approach to that theorem (which I shall soon explain) works, $\it or$ to give a very convincing argument that that approach cannot work. (I shall have a few remarks later about what such a convincing argument might



Research Project

The use of Internet open contents for university education: an empirical study on the perceptions, attitudes and practices of university faculty on Wikipedia. Project team: E. Aibar, J. Gomà, J. Lladós, M. Lerga, A. Meseguer and J. Minguillon

http://oer.uoc.edu/wiki4HE/

Main research question: Are Peer Production an Science Compatible?

Specific questions: what do university faculty members think of Wikipedia? Do they like it? Do they use it? Do they like students to use it? Do they find it useful?

Empirical study: 12 interviews + large survey to all faculty in 2 public universities (5000 people)



Wikipedia: wiki + free

Peer Production *versus* Science

Similarities

- Meritocracy
- Results are collectively achieved
- Peer Review
- Open publication of findings
- Objectivity as a goal
- Claims must rest upon reliable data or sources
- [Mertonian norms]

Differences

- [Science] Only (certified) experts may contribute
- [PP] Anyone can contribute (even anonymously)
- [PP] Not only results but process of production is also published
- [PP] Peer review is open and post-publication
- [PP] Individual authorship diluted

Some preliminary results

- Most faculty members are themselves frequent Wikipedia users.
- They show wrong ideas about how Wikipedia works.
- They are sceptical about the absence of a formal editorial committee and about the open nature of participation.
- Anonymity is also a source of particular concern.
- Some assume and anti-expertise ethos in Wikipedia.
- They see dangers when students use it as a reliable source. It is assumed that students make improper uses of Wikipedia.
- Though some mention mistakes or poor articles active use (contributing) is scarce.
- Quality is often perceived as very variable. This variability is found more problematic in Wikipedia than in standard academic publications.