Scientific publications

André Zúquete



Publication types

- > Poster
 - Extended abstract
- > Oral communication
 - Short / long paper
- > Journal article
 - Journal (target: the authors' community)
 - Magazine (target : general public)
- ▶ Demonstration
 - · More common in tech-oriented forums



Scientific publications

Length of publications

- - Journals
- - Journals
 - Some conferences

- - Some journals (letters)
 - Some conferences
 - Mostly workshops
- - Usually named extended abstracts
 - Conferences and workshops

 \triangleright



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Publication costs

- - Per publication fees
 - Discounts for students and organizations
 - Discounts for multiple presentations
- - Buyers
 - Authors (Open Access)



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Publication styles: Conferences and workshops

- > Usually provide a template and a page limit
 - LaTeX is common in informatics
 - · But some also use Word
 - For posters some provide a maximum poster area
 - A0, A1, etc.
 - · Strict formats are not common
- > Articles of an event are published as its proceedings
 - One or more paper-based volumes
 - Nowadays some use USB sticks, some allow public Internet downloads



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Scientific publications

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Publication styles: journals

- Usually provide a template
- Strict page limits are not common
- Articles are packed in sets
 - · Usually referred by a volume and number
 - A volume usually refers to a set of numbers for a period of time (e.g. year)

Magazines

- Usually provide a word limit
- They do the final artwork over text with a minimum of formatting
 - · Authors have to review the final edits for detecting errors introduced



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Periodicity

- - · Usually, annual
 - Some biennial
 - e.g. Symposium on Operating Systems Principles (SOSP)

▶ Journals

- Usually, have many issues per year
- Special issues
 - · Sporadic publication with a particular focus



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Conference / workshop Call for Papers (CfP)

- > A document that describes everything about it
 - Except the papers that will be presented
- ▶ Where (country, state, city, building)
- > When (first & last days, submission deadline, decision date)
- > Who
 - Chair, Program Chair, Program Committee, Conference Chair, etc.
 - Keynotes
- > What (topics of interest, publication types, page limits)



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Dissemination of Calls for Papers

- ▶ E-mail
 - Still used
- > Web pages
 - With less information for journals
 - · e.g. the possible reviewers
 - With extra information for conferences
 - · Photos, links to previous editions, etc.
- Specialized pages
 - e.g. wikicfp



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Venues

- - To give the opportunity of people around the world to participate in its organization
- > Some are always on a specific location
 - Tradition
 - e.g. Symposium on Security and Privacy, Oakland, CA, USA

universidade

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Scientific publications

Kinds of publications

- > Original contribution
 - Workshop / conference / journal / magazine
- > Survey or review
 - Journal
- - Chapter of a book of selected publications
 - Usually by invitation



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Revision process: 1st step

- > Submitted papers are evaluated by specialists
 - Members of the Conference / Workshop Program Committee (PC)
 - Pool of reviewers known by the editors of a journal / magazine
- > Sets of evaluations are used to get a verdict
 - Accept / downgrade / reject
 - Verdicts come with comments and improvement suggestions
 - In case of acceptance improvements may be supervised
 - Shepherding



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Revision process: 2st step

Accepted / downgraded on a conference / workshop

- The paper should be reviewed tacking comments into consideration
- · Sometimes completely new contents are requested
- · The reviewed version will go to the proceedings

Accepted on a journal / magazine

- Usually, a conditional accept
 - · Change requests are normal
- Minor changes / major changes
 - · Major changes usually require a new complete revision round
 - · Minor changes are usually checked by the editor in charge
- · Rejections usually are definitive



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Rebuttal

> Only in some conferences / workshops

- An official way to protest unacceptable reviews
 - · Incompetent, wrong, malicious, etc.

- Addressing the Program Committee Chair
- Usually has no consequences ...



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Anonymity in revisions

⊳ Blind

- · Authors do not know the identity of reviewers
- Normal case

- Reviewers do not know the identity of authors
- In some cases, you may not know all the author names, but you know the origin
 - · Project, team, country, etc.



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Conflicts of interests

- - When they have some personal relationship with the authors
 - When the paper comes from their organization
 - · Or a rival
 - When the paper is from a team in the same project
 - Or concurrent



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Acceptance rate

- □ Usually, the best papers are accepted until reaching a quota
 - The number of presentation slots in a conference
 - The number of papers or pages per journal issue

Quality indicator for conference / workshops

- AR < 5% → game of chance
- 5% < AR < 15% → excellent
- 15% < AR < 30% → good
- 30% < AR < 45% → fair



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Impact factor (IF or JIF)

Scientometric index

- · Calculated by Clarivate
- Reflects the yearly mean number of citations of articles published in the last two years in a given journal

$$IF = \frac{Citations_{y}}{Publications_{y-1} + Publications_{y-2}}$$

• Only for journals indexed by Clarivate's Web of Science

- Assumed correlation between citations and quality
- Quarters Q1 (best), Q2, Q3 and Q4 (worse)



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CORE rankings for conferences

> Assessment of major conferences in the computing disciplines

- Managed by the CORE Executive Committee
- Periodic rounds for submission of requests for addition or re-ranking of conferences
- https://www.core.edu.au/conference-portal

> Conferences' categories:

- Quality: A*, A, B, C, Unrated
- Audience: Australasian, National, Regional



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CORE rankings for conferences

- A* flagship conference, a leading venue in a discipline area
- A excellent conference, and highly respected in a discipline area
- B good to very good conference, and well regarded in a discipline area
- · C Ranked conference that meet minimum standards
- Unranked A conference for which no ranking decision has been made

Determined by a mix of indicators

- Citation rates
- · Paper submission and acceptance rates
- Visibility and research track record of the key people hosting the conference and managing its technical program



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Predatory publishing

- > Journal that accept anything for money
 - · Quality is usually assured by reviewers
 - In this cases reviews are absent or ineffective
- - Submitted a deeply flawed medical paper to 304 journals
 - About 60% accepted in (including several reputed editors)
 - "Who's Afraid of Peer Review?" describes it



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Predatory publishing: Beall's criteria

- > 26 criteria related to poor journal standards and practices
 - 9 related to journal editors and staff members
 - 7 related to ethics and integrity
 - 6 related to the publisher's business practices
 - 6 'other' general criteria related to publishers
- ≥ 26 additional practices that were 'reflective of poor journal standards'
 - But not necessarily indicative of predatory behaviour.



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Predatory publishing: Eriksson and Helgesson's criteria

> 25 signs of predatory publishing

- A journal will not necessarily be predatory if they meet one of the criteria
- But the more points on the list that apply to the journal at hand, the more skeptical one should be



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