Publishing Research

Overview

- We will discuss different types of publication venues
 - workshop, conference, symposium, journal, book
- Peer-review process
- Assessing publication quality
 - Bibliometrics, journal/conference impact, author impact



Journals

"An academic or scholarly journal is a peerreviewed or refereed periodical in which scholarship relating to a particular academic discipline is published. Academic journals serve as forums for the introduction and presentation for scrutiny of new research, and the critique of existing research." [1]





Journals

- Articles in journals can be unsolicited or solicited
 - Most journals have an open call for papers
 - Sometimes special issues of a journal can focus on a specific topic
 - It is not uncommon for a conference to have an associated special journal issue and for authors of the best conference papers to be invited to submit a journal version of their paper.
 - A journal "version" must be have a significant amount of new works and can not be the same as the already published conference paper



Journal Organization

- Editor(s)
- Editorial Board
- Guest Editor for special issues
- Reviewers
- Authors



Journals by Publisher

- ACM Journals http://dl.acm.org/pubs.cfm
- IEEE Computer Society Journals -http://www.computer.org/web/publications/transactio
 ns/
- Elsevier Journals -<u>http://www.elsevier.com/journals/subjects/computer-science</u>
- Wiley Journals http://ca.wiley.com/WileyCDA/Section/id-350325.html



Conferences, Symposiums & Workshops

- "The ACM considers that the term "conference" generally implies a technical meeting in which expected attendance will exceed 300 attendees; the term "symposium", 100-300, and "workshop", fewer than 100. Conferences and symposia usually publish proceedings." [2]
- It is common for workshops to also have a proceedings but the quality and type of papers may differ





Conferences

- Conference (and symposium) publications are sometimes preferred in Computer Science because of the quick turn around time for peer review and notification of acceptance – in comparison to Journals
- Conference papers are often similar is substance to journal papers but can be shorter in length (e.g., 10 vs 20 pages)



Conferences

- Conferences may include different tracks divided by topic or type of publication
 - By topic: e.g., SAC 2016 http://www.acm.org/conferences/sac/sac2016/tracks.h
 tml
 - By type: e.g., research track, industry track, education track, emerging ideas track
- In general there are a wide range of publication types ranging from full papers to extended abstracts.



Conference Organization

- Steering Committee
- Organizing Committee
 - General Chair
 - Program chair(s)
 - Workshop chair(s), track chair(s)
 - Proceedings chair, publicity chair, finance chair, and more...
- Program Committee
- Authors/Presenters
- Participants



Workshops

- Workshops and often co-located with/or satellite events of a larger conference or symposium
- Some workshop can be as competitive/high quality as some conferences and feature mature, welldeveloped research while others may feature workin-progress and position papers
- If a workshop includes a publication of papers then it will be peer-reviewed



Workshop Organization

- Steering committee (often ad-hoc)
- Program chair/Workshop organizer
- Program Committee
- Authors/Presenters
- Participants



Peer Review

- "Work published in a reputable journal or conference is peer-reviewed." [3]
- "...active researchers should expect to referee about two to three times as many papers as they submit (or somewhat less if their papers are usually coauthored) and only decline to referee a paper with good reason." [3]



Blind vs. Double-Blind Reviews

- Reviews are typically blind the authors do not know the identity of the reviewers
- Reviews can also be double-blind the reviewers also do not know the identity of the authors. In this case names and identifying information (e.g., self citations) are removed before review
- The type of review used will depend on the policy of the journal, conference or workshop.



Journal Peer Review

- The editor or guest editor will select 3 or more research experts to review each submitted paper
 - A reviewer may also obtain the help of a sub-reviewer (colleague, graduate student) to assist in the review
- A reviewer provides a detailed critique and recommends one of the following actions be taken: reject, major revisions, minor revisions, accept
- The detail review includes author notes (advice/critique for the authors) and can include editor-only notes (e.g., in the case of suspected plagiarism)



Conference Peer Review

- The program chairs invite researchers to serve on the program committee (PC)
- After submissions the PC members bid on the papers and identify any conflicts of interest
- The chairs assign papers for review (subreviewing may occur).
 - Reviewer will provide a recommendation with their review (e.g., strong accept, weak accept, neutral, weak reject, strong reject)
- After reviews are complete the PC and the chairs discuss and reach a recommendation of accept or reject for all papers



Publication Quality

- Bibliometrics
 - Assessment of publication quality/impact
 - Citation metrics
 - Journal/conference metrics
 - IF impact factor
 - Defined as the average number of citations per article
 - H-index
 - Described on next slide

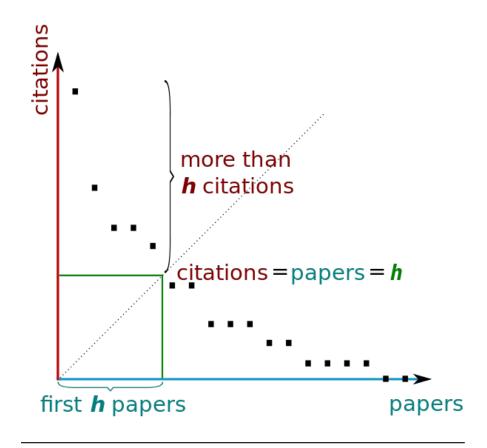


Publication Quality

Bibliometrics

- Author-level metrics

 assessment of
 researcher
 quality/impact
- H-index
 - An H-index of 12 means 12 papers cited by at least 12 other papers



Source: https://en.m.wikipedia.org/wiki/H-index



Publishing Research

Summary

 Today we discussed different types of publication venues, the peer-review process and bibliometrics.

Things to consider...

- What are the journals and conferences available for publication in your area?
- What is the IF (impact factor) of the journals?
- What is the acceptance rate of the conferences?

