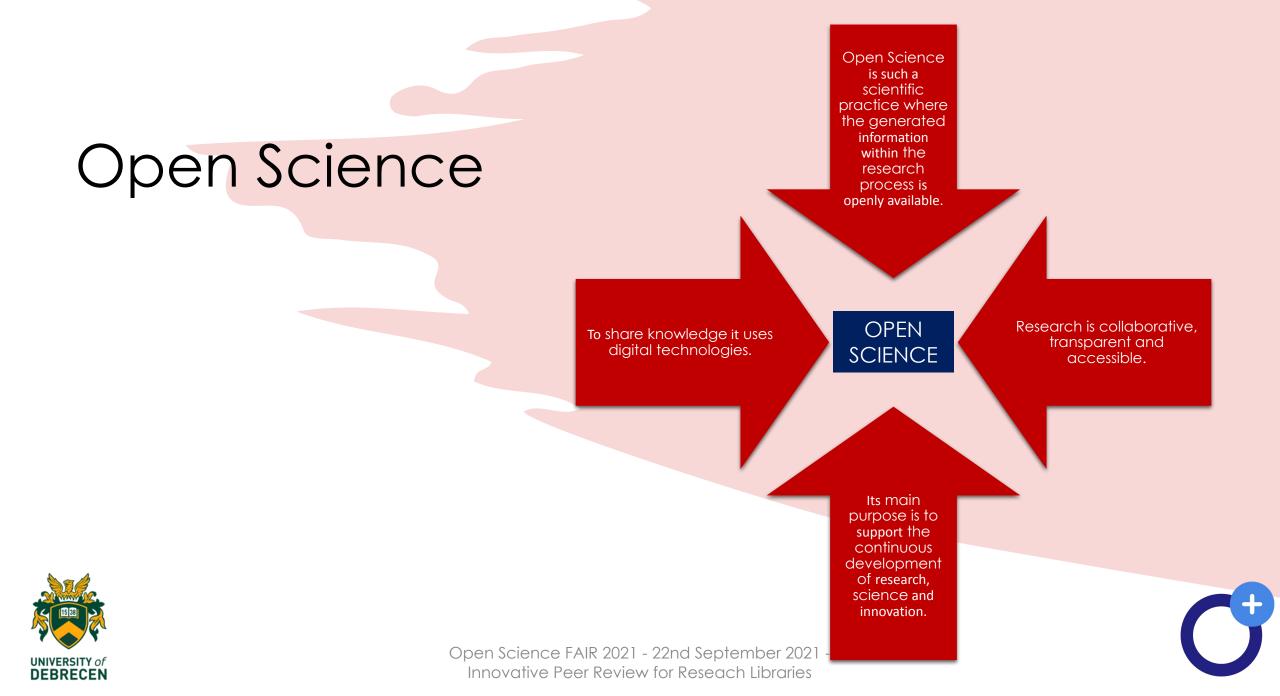
Open Peer Review - One Step Forward in the Cultural Change of Scholarly Communications

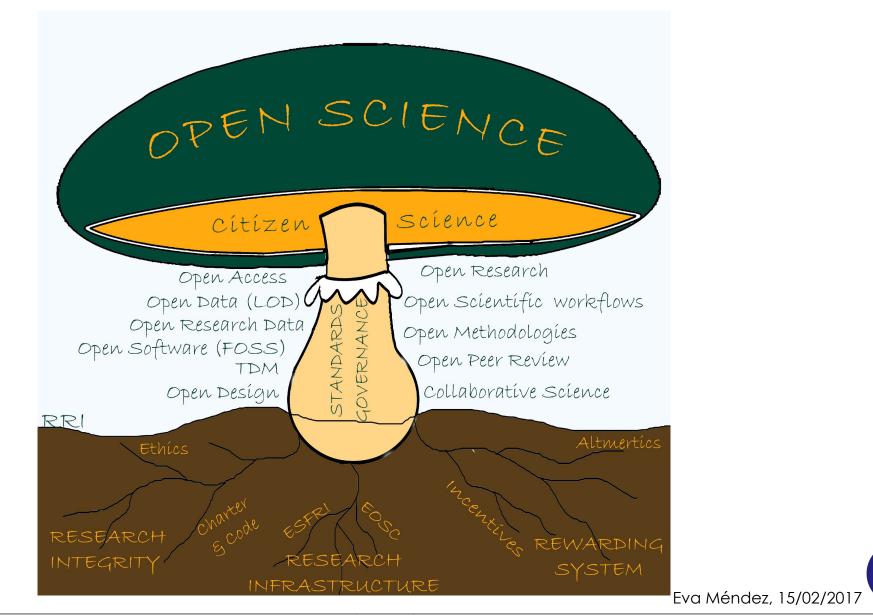
JUDIT FAZEKAS-PARAGH

UNIVERSITY OF DEBRECEN UNIVERSITY AND NATIONAL LIBRARY

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Open Science FillR 2021 22nd September In ovative Peer Review for Reseach Libro







OpenAIRE

Map up new models of peer review Helps to strengthen the evaluation of research via open peer review

Describe alternative peer review tools Seeking for answers how to motivate and credit review work

Reseraching the efficacy of different OPR models



Peer review

Quality assurance mechanism where scholarly works are analyzed by others, out of the feedbacks which are used to improve work and make final decisions regarding selections.







Changing roles

Role of Peer Review

• Functions: critical review checking the soundness of research assesing originaty novelty, intrest.

Changing Role of Editors

 Tasks: first scan, finding reviewers, reviewing, collaboration with authors/other editors

Growing responsibility of authors

 Tasks: finding reviewers, cooperation with editors/Reviewer, revision based on community comments

Involvment of peers

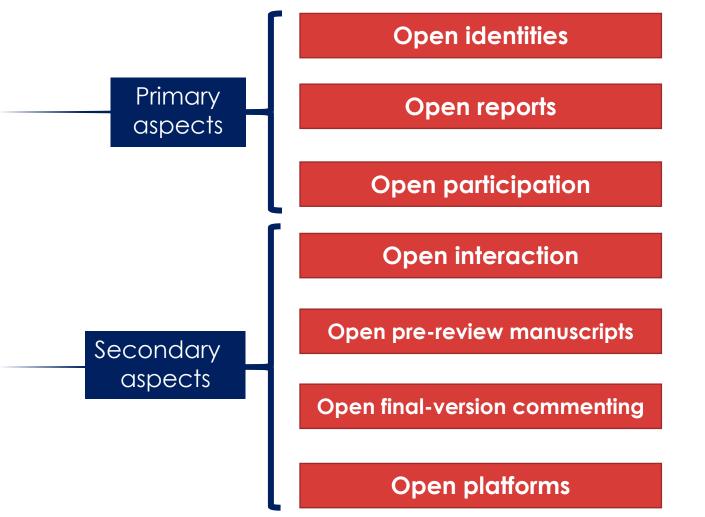
 Role of the community/peers: who is the peer?





Open peer review

Open peer review is an umbrella term for a number of overlapping ways that peer review models can be adapted in line with the aims of Open Science.





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Ross-Hellauer, 2017, "What is open peer review? A systematic review", F1000Research. DOI: 10.12688/f1000research.11369.2



Open identities	Authors and reviewers aware of each other's identity	Open reports	Review reports published alongside relevant article
Open participation	Wider community able to contribute to review process	Open interaction	Direct discussion between author(s)/reviewers, and/or between reviewers
Open pre-review manuscripts	Manuscripts/pre-print s available online in advance of peer review	Open final-version commenting	Review or commenting on final "version of record" publications.
	Open platforms ("decoupled review")	Review is facilitated by a different organizational entity than the venue of publication	





Open identities



Pros

- Increase quality of reports
- Foster transparency to avoid conflicts of interest
- More civil language (in review and response)

Cons

- Difficulty in taking and giving critical feedbacks
- Labor-intensive process







Open reports

Pros

- Feedback improves work and provide contextual information
- Giving better feedback increase review quality
- Enable credit and reward for review work
- Help train young researchers in peer reviewing

Cons

- Higher refusal rates amongst potential reviewers
- Time-consuming and more demanding process
- Fear of being exposed (esp. for early career researchers)



Open participation

Pros

- Expanding the pool of reviewers (including to those non-traditional research actors)
- Support cross-disciplinary dialogue
- Increase number of reviewers being part of the debate



Cons

- Time issue: difficulties motivating commentators to take part and deliver useful critique
- Self-selecting reviewers tend to leave less "in-depth" responses
- Feedback from noncompetent participants





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A Reviewer 4 - Jul 23, 202

Basis reporting

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A Download Version 0.2 (PDF)

What does it look like in practice? PeerJ

Facts:

- Optional open peer review
- 40% of reviewer signed their name
- 80% of authors made review reports openly available

Validity of the findings

Table 1 shows that classes are imbalanced and large variance. How it is handled during training? The loss and accuracy graphs need to be presented. Epoch and training explanation needs to present.

Authors can compare his work with baseline Deep CNN classifier models.

Cite this review as

Garg D (2021) Peer Review #1 of "KL-MOB: automated COVID-19 recognition using a novel approach based on image enhancement and a modified MobileNet CNN (v0.1)". *PeerJ Computer Science*



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https://peerj.com/benefits/review-history-and-peer-review/

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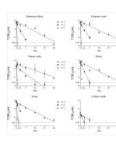
RECORD ABSTRACT ARTICLE

The effect of temperature on persistence of SARS-CoV-2 on common surfaces

Author(s): Shane Riddell , Sarah Goldie , Andrew Hill , Debbie Eagles , Trevor W. Drew Publication date (Electronic): **7 October 2020** Journal: Virology Journal Publisher: BioMed Central Keywords: Environmental stability, SARS-CoV-2, COVID-19, Survivability

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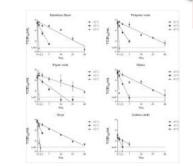
•Reviewers get credit for their reviews via ORCID

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What does it look like in practice? Frontiers

📌 Robert Petersen

College of Medicine, Central Michigan University, United States

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Babasaheb Bhimrao Ambedkar Bihar University, India

The editor and reviewers' affiliations are the latest provided on their Loop research profiles and may not reflect their situation at the time of review.

The Perspective of Dysregulated LncRNAs in Alzheimer's Disease: A Systematic Scoping Review

 Image: Second Strain Strain

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Collaborative peer review

- Unite: authors, reviewers and the handling Editor
- direct online dialogue
- enabling quick iterations
- facilitating consensus
- Editors and reviewers work with the authors to improve their manuscript.
- reviewers name appear on the published article





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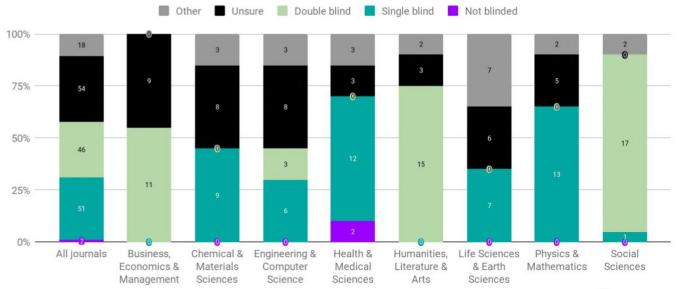
Decouple peer review Gives visibility to review and editorial work Able to evaluate other reviewers



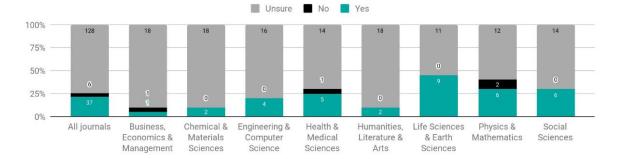


Transpose database

What type of peer review is used?



Can co-reviewers contribute to the review?





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Innovative Peer Review for Reseach Libraries

Reichmann. et. al:Editorial policies of many highly-cited journals are hidden or unclear. 2019

Why OPR?

Transparency

Reliability

Credit for peer reviewers

Educational tools

Accountability

Quality of feedback



Two ways to practice OPR

Retain the current peer review system but with open reviews and identities Develop an entirely new system that is open to the community



Open peer review models are developing, improvements are made and lessons learnt.



Open Science FAIR 202 - 22nd Septemb Innovative Peer Review for Reseach Lik ories

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How these practices work out in the long run?

 To be able to collect the good/best practices - It would be necessary to have an open dialog with publishers about the review data they are collecting

The picture of open peer review practices are tremendously varying.

References

- 1. Ross-Hellauer T, Deppe A, Schmidt B. Survey on open peer review: Attitudes and experience amongst editors, authors and reviewers. *PloS one*. 2017;12(12):e0189311.
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- 3. Ross-Hellauer T, Görögh E. Guidelines for open peer review implementation. Research integrity and peer review. 2019;4(1):1-12.





Thank you for your attention!

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