



Reviewing in NLP – A Tutorial

Kevin Bretonnel Cohen, Karën Fort, Margot Mieskes,
Aurélie Névéol

July 5th, 2020



How to Review specific Sections in a Scientific Paper

Reviewing in
NLP – A
Tutorial

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Bretonnel
Cohen, Karën
Fort, Margot
Mieskes,
Aurélie Névéol

Introduction

Background

The Actual
Review

Ethics and
reviewing

- 1 Introduction
- 2 Background
- 3 The Actual Review
- 4 Ethics and reviewing
- 5

Who are we?

Kevin

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Karën Fort

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- Expertise in language resources for NLP
- Reviewing Approach: "Write it the way you'd like to read it for yourself"
- Biases:
 - "[...] everything looks like a nail" (i.e. I'm a specialist in manual annotation, so I tend to focus too much on it)
 - Strong preference for well-written papers
 - ...

Who are we?

Margot Mieskes



- Summarization, Evaluation, Replication, Ethical Concerns in NLP
- Beating state-of-the-art is not the main goal
- Biases:
 - Higher, Faster, Better is not Science
 - What can be learned about the use of language
 - ...

Who are we?

Aurélie Névéol

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- Expertise in biomedical NLP
- Reviewing Approach: "Come with an open mind"
- Biases:
 - Strong preference for IMRaD structured papers
 - Interest in evaluation beyond performance measures
 - ...

Margot Starts Here!

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Welcome

Starting Point

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Dear author, we are sorry to inform you that your paper has not been accepted for publication at <INSERT PUBLICATION VENUE>.

Starting Point

Dear author, we are sorry to inform you that your paper has not been accepted for publication at <INSERT PUBLICATION VENUE>.



https://upload.wikimedia.org/wikipedia/commons/thumb/4/42/Sad_smiley_yellow_simple.svg/1024px-Sad_smiley_yellow_simple_svg.png

And then the details ...

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This is a bad paper and should not be published.

These examples are quoted from real reviews (or slightly reworded); some quotes are also discussed on <https://hackingsemantics.xyz/2020/reviewing-models/>

And then the details ...

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”The main weakness of the paper is the results do not beat the state of the art models.”

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There is nothing really new about this paper.

”This paper presents yet another question answering test.”

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”The paper is mostly a description of the corpus and its collection and contains little scientific contribution.”

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"I personally do not care for this topic."

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"This must be the work of an inexperienced student".

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"Not so good English."

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https://upload.wikimedia.org/wikipedia/commons/thumb/4/42/Smiley_green_alien_unhappy.svg/807px-Smiley_green_alien_unhappy_svg.png

Problems with reviewing

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- ACL 2019 Survey Results
- A lot of discussion on
 - how to deal with review load
 - how to lower the review load
- Criticism on Quality of Reviews
- Demographic information about reviewers

Source:

<http://acl2019pcblog.fileli.unipi.it/wp-content/uploads/2019/07/ReportACL2019ReviewingSurvey.pdf>

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Results included:

- General Comments: Concerns about reviewer preparation, review quality, and reviewing load; ...
- Structure Forms improve Quality/Clarity
- Having at least some positive and some negative points provides a more balanced feel and is important
- Can help reduce bias and increase fairness in judgements
- Structured forms are helpful for new reviewers

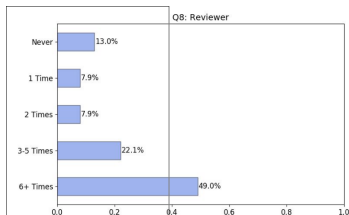
Source:

<http://acl2019pcblog.fileli.unipi.it/wp-content/uploads/2019/07/ReportACL2019ReviewingSurvey.pdf>

Problems with reviewing

Results included:

- General Comments: Concerns about reviewer preparation, review quality, and reviewing load; ...
- Structure Forms improve Quality/Clarity
- Having at least some positive and some negative points provides a more balanced feel and is important
- Can help reduce bias and increase fairness in judgements
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Source:

<http://acl2019pcblog.fileli.unipi.it/wp-content/uploads/2019/07/ReportACL2019ReviewingSurvey.pdf>

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Results included:

Reviewer quality is a major concern
/ training for new reviewers might
be useful

Source:

<http://acl2019pcblog.fileli.unipi.it/wp-content/uploads/2019/07/ReportACL2019ReviewingSurvey.pdf>

Therefore

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That's why we are here!

Switch/Break

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source: https://de.wikipedia.org/wiki/Datei:Mt._Lavinia-_Governor%27s_High_Tea.jpg

Exercise: Which of the following makes a stronger significance argument?

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https://commons.wikimedia.org/wiki/File:Boy_Drawing_Warm_Up_Exercise_Cartooning

- 1 There has recently been considerable interest in the problem of compositionality of embeddings.
- 2 There has recently been considerable interest in the problem of compositionality (Able 2015).
- 3 There has recently been considerable interest in the problem of compositionality of embeddings (Able 2015, Baker 2016, Charlie 2017, Delta 2018, Echo 2019).

Exercise: Which of the following makes a more actionable reviewer comment?

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https://commons.wikimedia.org/wiki/File:Man_Dancing_Memoir.jpg#/media/File:Man_Dancing_Memoir.jpg#/media/File:Man_Dancing_Memoir.jpg

- ❶ The author must be a student who was not taught how to properly support a claim.
- ❷ The statement "There has recently been considerable interest in the problem of compositionality" is unsupported.
- ❸ The following references could be used to support the claim "There has recently been considerable interest in the problem of compositionality": (Able 2015, Baker 2016, Charlie 2017, Delta 2018, Echo 2019).

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Exercise: Which of the following provides the best support for a conclusion that makes a claim of state-of-the-art performance against a baseline of 0.95?

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https://commons.wikimedia.org/wiki/File:Max_Doring_Warm-Up_Eercises_Graphics.jpg

- ① Average F-measure as obtained from cross-validation was 0.96.
- ② Median F-measure as obtained from cross-validation was 0.96.
- ③ Median F-measure as obtained from cross-validation was 0.96 with an inter-quartile range of 0.4, minimum of 0.92, and maximum of 0.96.
- ④ Median F-measure as obtained from cross-validation was 0.94 with an inter-quartile range of 0.02, minimum of 0.91, and maximum of 0.96.

Why do reviews?

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- For the good of the World
- For the good of the research community
- For your own good

Who is your audience?

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Who is your audience?

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reviewing

- The authors of the paper:
 - *narrative feedback* helps authors understand what the paper conveys
 - *actionable feedback* helps improve the paper
- The Area Chairs / Editor: *itemize major pros and cons* to help reach a decision
 - *performance point of view* helps them evaluate the novelty/correctness of the research
 - *deontological point of view* helps them evaluate the way the research was conducted

Exercise

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https://commons.wikimedia.org/wiki/File:Man_Doing_Warm-Up_Exercise_Cartooning

*You are reviewing for a high-status
conference, and for a low-status conference.
How should your reviews differ?*

Exercise

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https://commons.wikimedia.org/wiki/File:Mary_Doling_Went_to_Exercise_Getting_ready

*You are reviewing for a high-status
conference, and for a low-status conference.
How should your reviews differ?*

Why?

Roles

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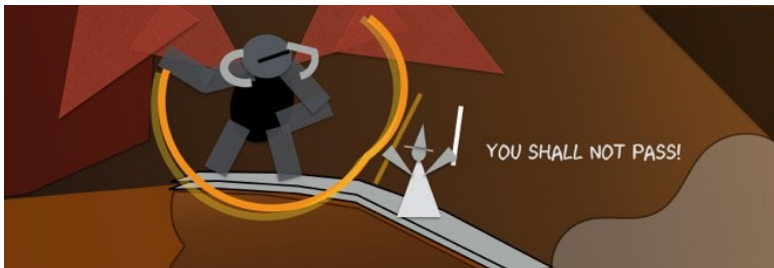
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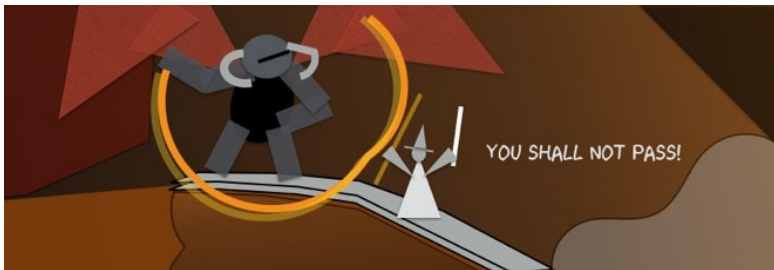
The Gatekeeper



<https://www.wired.com/2014/08/lotr-physics/>

Roles

The Gatekeeper

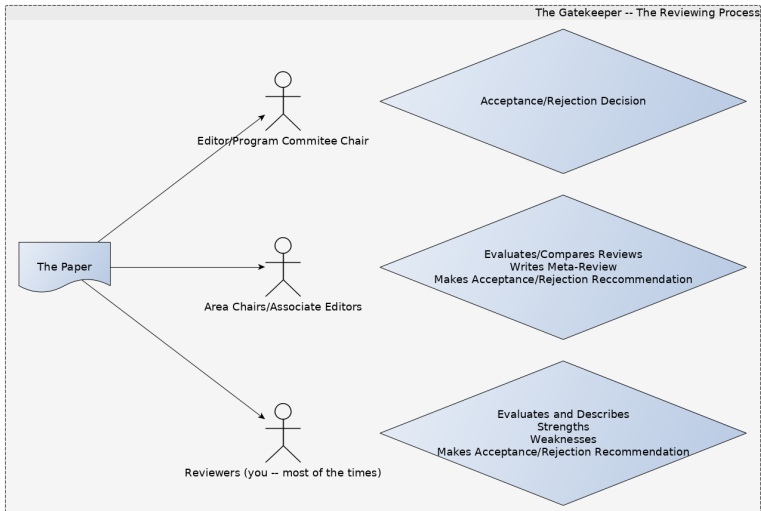


<https://www.wired.com/2014/08/lotr-physics/>

Not (only) YOU!

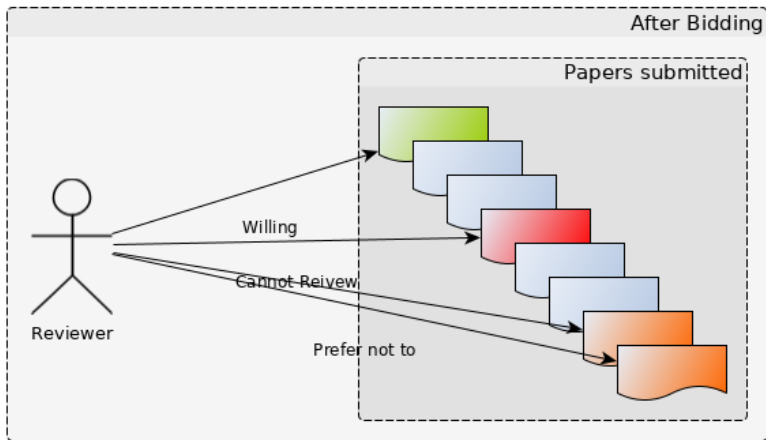
Roles

The gatekeeper:



How do they get to you?

Bidding



How do they get to you?

Assignment

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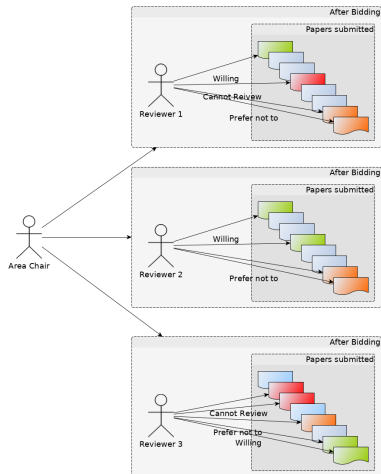
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How do they get to you?

Receiving Assignments

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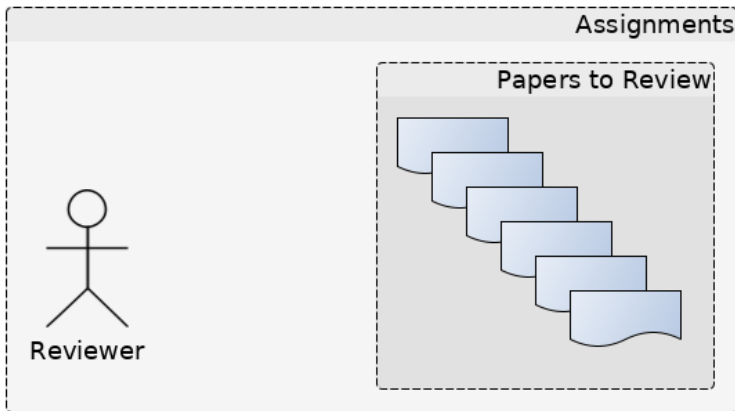
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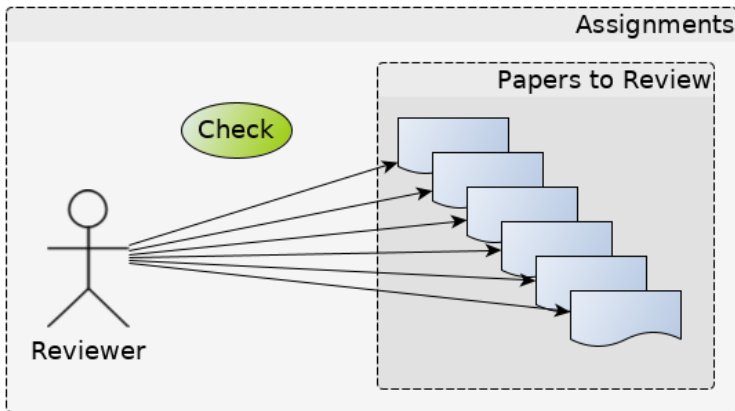
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How do they get to you?

Check Papers



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How do they get to you?

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- Conflict of Interest?
- Concerns about your ability?
 - Topic is somehow offensive?
 - Methodology is outside of your skill scope
 - ...

Inform the Area Chair ASAP.

What happens next?

Author Response Period.



<https://www.pexels.com/photo/questions-answers-signage-208494/>

What happens next?

Discussion Phase



<https://freesvg.org/discussion>

Exercise: What problem – if any – do you see with this fragment of a review?

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https://commons.wikimedia.org/wiki/File:Man_Dancing_Warm-Up_Exercise_Cartooning

Quantitative score: *Methodology: 1*
(*Methods are invalid for testing the hypothesis*)

Exercise: What problem – if any – do you see with this fragment of a review?

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https://commons.wikimedia.org/wiki/File:Man_Dancing_Warm-Up_Exercise_Cartoon.jpg

Comments to authors: *The system uses rules. But, machine learning is cheaper than rules.*

Margot Ends Here

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source: https://de.wikipedia.org/wiki/Datei:Mt._Lavinia-_Governor%27s_High_Tea.jpg

Karen Starts Here

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The actual review

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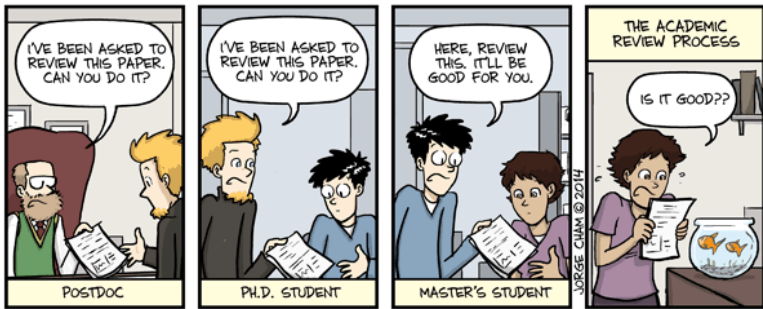
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Source: <http://phdcomics.com/comics.php?f=1760>

Exercise: Reviewing the reviews

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Illustration: pixabay.com, drawing: Freepress, drawing: Freepress

- Read **Paper 42** (optional)
- Read the reviews provided with **Paper 42**
- Do you think they are good/bad reviews? Why?
- Live discussion on July 5th

What makes a good bad (easier to tell) review?

From the authors' point of view

- superficial reading of the paper
- rudeness or nastiness
- inflexibility
- expecting perfection
- reviewing your version of the paper rather than the submitted paper: interest in the topic, feeling about the paper, ...
- making unsupported claims about the paper
- [insert yours here]

Sources: <https://acl2017.wordpress.com/2017/02/23/last-minute-reviewing-advice/> and <https://sites.umiaccs.umd.edu/elm/2016/02/01/mistakes-reviewers-make/>

What makes a good bad (easier to tell) review?

From the [area chairs/editors'](#) point of view

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- a **late** review (without advance warning and planning)
- a **lukewarm** review
- a positive review with low scores (an **incoherent** review)
- an **insulting** review
- [insert yours here]

Sources: <https://acl2017.wordpress.com/2017/02/23/last-minute-reviewing-advice/> and
<https://coling2018.org/reviewer-code-of-conduct/>

Exercise: Writing a review

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http://commons.wikimedia.org/wiki/File:Smiling_Male_Child_2006.jpg

- Read **Paper 42**
- Write a short review
- Live discussion on July 5th

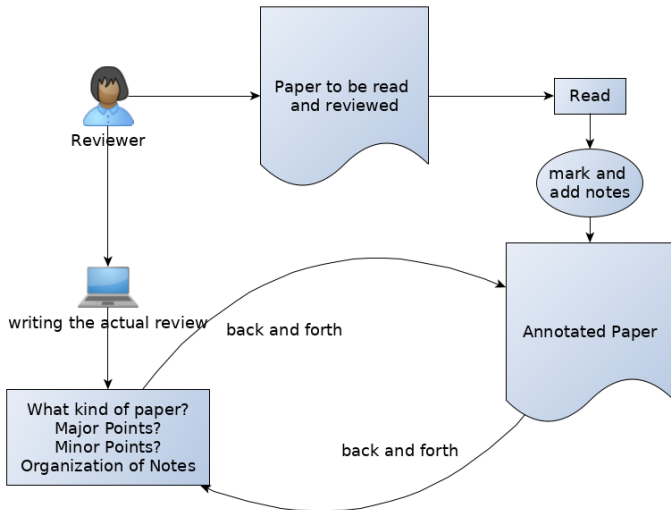
What you should ask yourself

- Did I take **enough time** to digest the paper?
- Did I take **enough time** to write/review my review?
- Did I focus on the **work**?
- Are the comments I made **constructive**?
- Are the comments I made **substantial** enough (are they grounded)?
- Did I mention **something good** about the paper?
- Did I **check**:
 - the accompanying code/data (if any)?
 - potential (self-)plagiarism? Salami-slicing?

?? How would I feel about receiving such a review?

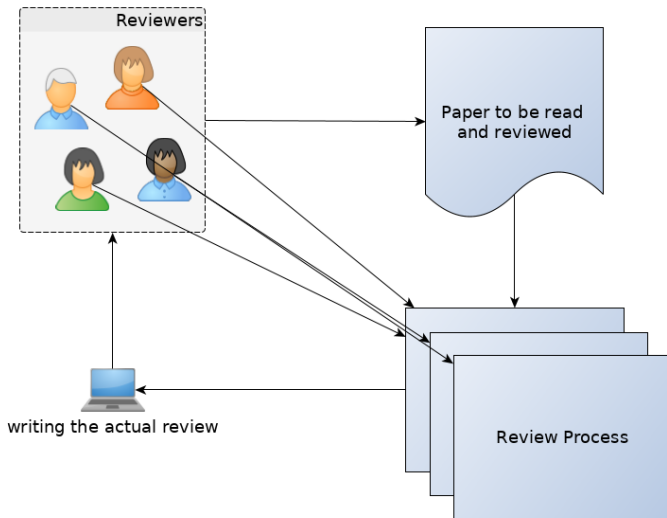
How did you proceed?

One possibility. . .





Not one possible procedure



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Reading is annotating

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Paper to Review

Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. **At vero eos et accusam et justo duo dolores et ea rebum.** Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet. Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. **At vero eos et accusam et justo duo dolores et ea rebum.** Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet. Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. **At vero eos et accusam et justo duo dolores et ea rebum.** Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet.

Main point

Strength

Weakness

Unclear

Strength

Issue

Grammar

Duis autem vel eum iriure dolor in hendrerit in vulputate velit esse molestie consequat, vel illum dolore eu feugiat nulla facilisis at vero eros et accumsan et iusto odio dignissim qui blandit praesent luptatum zzril delenit augue duiis dolore te feugiat nulla facilisis. **Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat.**

Ut wisi enim ad minim veniam, quis ~~nostrud~~ exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat. Duis autem vel eum iriure dolor in hendrerit in ~~vulputate velit esse~~ molestie consequat, vel illum dolore eu feugiat nulla facilisis at vero eros et accumsan et iusto odio dignissim qui blandit praesent luptatum zzril delenit augue duiis dolore te feugiat nulla facilisis.

Nam liber tempor cum soluta nobis eleifend option congue nihil imperdiet doming id quod mazim placerat facer



Approach

Reviewing in
NLP – A
Tutorial

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Aurélië Névëol

Introduction

Background

The Actual
Review

Ethics and
reviewing

- What type of paper is it?
 - Method paper
 - Evaluation Paper
 - Reproducibility paper
 - Resource Paper
 - Position/survey paper



- Identify the paper type and use appropriate evaluation criteria



NLP engineering experiment paper

Example from <http://coling2018.org/paper-types/>

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- Can you tell what research question was addressed?
 - What is the hypothesis?
 - How was it tested?
- Is the research technically sound and correct?
- Is there an error analysis?
- Is there meaningful comparison?
 - To the literature?
 - To baselines?



Reproduction paper

Example from <http://coling2018.org/paper-types/>

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- Data/Code availability
 - Of the original research
 - Of the reproduction
- Description of the specific reproduction obstacles
- Generalizability: beyond reproduction?
- Informativeness: insight of the reproduction?
- Is there meaningful comparison to the original experiments?



Resource paper

Example from <http://coling2018.org/paper-types/>

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- How was the resource produced?
 - Source material?
 - Workforce?
- How was the resource evaluated?
 - What was the quality control procedure?
 - Was inter-annotator agreement computed?
- Are metadata and accessibility detailed?
- How does it compare to existing resources?



Survey paper

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Karen: Final slide for everybody's usage (to improve)

- Organization: does the survey address a specific question?
- Scope: Does the paper identify a reasonably focused area to survey?
- Thoroughness: does the paper cover all of the relevant literature?
 - Is the source of the literature surveyed clear?
 - Are criteria for inclusion/exclusion of papers in the survey clear?
- Outlook: Does the paper identify areas for future work ?



Notes

- What is the paper about?
- What do they use?
 - Data
 - Methods
 - Tools
 - ...
- What are the results?
- What are the claims?
- Do results and claims match?



First (or last?) step: write a summary!

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- Are the hypotheses sound?
- Is the experimental setup suited to the problem stated?
- Is the evaluation sound?
- Is the problem well-motivated?
- What is the take-home message?
- Are the conclusions supported by the results?
- ...



Writing the review

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- Follow the order of the paper
- List strengths and weaknesses (?)
- Major vs. minor issues

Support your claims with **appropriate references**

Switch/Break

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source: https://de.wikipedia.org/wiki/Datei:Mt._Lavinia-_Governor%27s_High_Tea.jpg

Review forms

ACL, COLING, EMNLP, LREC, Konvens, SwissText, TALN, etc.

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Most conferences in the domain use the same basic type of form with:

- numeric scores
- free text form(s)
- confidential comments

Exercise: What problem do you see with the following fragment of a review?

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Map: iStockphoto.com/Andrey Kuznetsov, Shing, Nelli, Jia, Zhenan, Oshinova

- **Quantitative score:** Review of related literature: 1 (Major relevant papers are missing)
- **Comments to authors:** There are missing references.

Exercise: What problem do you see with the following fragment of a review?

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- **Quantitative score:** Review of related literature: 1 (Major relevant papers are missing)
- **Comments to authors:** There are missing references.

How could it be improved?



Numeric scores (beware!)

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reviewing

- Consistent with your textual review
- Sanity Check



Online vs offline review forms

or else. . .

Online

- + easy to fill in
- limited session (you might lose your scores/text)

Offline

- + no limit in time
- not so easy to fill in (old-school text format)

Discussion clipart: MRafizeldi / CC BY-SA

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Online vs offline review forms

or else. . .

Online

- + easy to fill in
- limited session (you might lose your scores/text)
- bias due to the form?

Offline

- + no limit in time
- not so easy to fill in (old-school text format)
- bias due to the form?

→ (Possible) Mixed approach: write your (text) review in a text file, then copy/paste in the online form

Discussion clipart: MRafizeldi / CC BY-SA

ACL 2020 review form

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- "What is this paper about, what contributions does it make, what are the main strengths and weaknesses?"
- "Reasons to accept"
- "Reasons to Reject"
- "Overall Recommendation"
 - "Transformative"
 - "Exciting"
 - "Strong"
 - "Leaning Positive"
 - "Leaning Negative"
 - "Mediocre"
 - "Weak"
 - "Poor"

ACL 2020 review form

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- "Reviewer Confidence"
- "Author Response"
- "Questions for the Author(s)"
- "Missing References"
- "Typos, Grammar, Style"
- "Additional Suggestions"
- "Confidential Information"



Constraints and biases of review forms

*"What is this paper about, what contributions does it make, what are the main **strengths** and **weaknesses**?"*

[ACL 2020 review form]

VS

Major points and minor points.

[Most bio-info review forms]

Discussion clipart: MRafizeldi / CC BY-SA



Using confidential Comments

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Source: Free photo by Tophee Marquez from <https://www.pexels.com>



Using confidential Comments

- Additional Comments wrt. the overall recommendation
- Special circumstances that apply to this paper and might allow for acceptance/rejection despite low(er)/high(er) marks
- Comments about the author(s) rather than the paper
- Plagiarism / salami slicing concerns
- Concerns about your own review (level of expertise, discovery of COI...)
- Anonymity breaches (including for *you*: perhaps you have reviewed the same paper before...)

Anything else **you** think is important, but should **not** be visible to the other reviewers and/or the authors



(very) Bad papers?



Do not **waste** your time
vs
make a **pedagogical effort**

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(very) Bad papers?



Do not **waste** your time

vs

make a **pedagogical effort** → depends if you feel like the

authors made an effort?

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What else?

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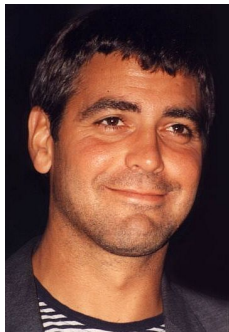
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Plagiarism

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SINCE 1828

GAMES | BROWSE THESAURUS | WORD OF THE DAY | WORDS AT PLAY

plagiarizing

DICTIONARY | **THESAURUS**

plagiarize verb



Save Word

plā·gia·rize | \ plā-jə-,rīz  also -jē-ə- \

plagiarized; plagiarizing

Definition of *plagiarize*

transitive verb

: to steal and pass off (the ideas or words of another) as one's own : use (another's production) without crediting the source

source: <https://www.merriam-webster.com/dictionary/plagiarizing>

Exercise: Back to Paper 42

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http://commons.wikimedia.org/wiki/File:Young_Male_Child_Gesturing

- Re-read Paper_42
- Is it possible that part of it is, in fact, plagiarism?
- If yes, find it and find the source

From plagiarism. . .

Plagiarism detection software is usually available in your University, e.g. Compilatio (Sorbonne University), iThenticate (University of Amsterdam), etc. . .

Or you have your own **similarity detection** system

Or your favorite **search engine**

Just use it!

... to salami-slicing detection

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A side effect of looking for plagiarism is that you may find salami-slicing (or self-plagiarism):

"Salami publication (sometimes called bologna or trivial publication) is the practice of dividing one significant piece of research into a number of small experiments [...] to increase the number of publications."

<https://www.law.hku.hk/researchintegrity/salami-slicing/>

Exercise: Research material in Paper 42

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http://commons.wikimedia.org/wiki/File:Young_Male_Child_waving_Graphics

- Is the material available?
- Does it look relevant?

Reproducibility

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When data is provided or linked to:

- check if it really exists
- check if it does not break the anonymity
- if time allows, try to download and run it



Writing a review

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- Plan enough **time** to do it
- Be **polite**
- Focus on the **work**
- Avoid trivialities
- Do not attack the authors
- Take specifics into account (e.g. low-resourced language)
- Be as **elaborate** and **explicit** as possible
- The worse the numeric scores, the more elaborate the review should be to support this

Switch/Break

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source: https://de.wikipedia.org/wiki/Datei:Mt._Lavinia-_Governor%27s_High_Tea.jpg

Karen Ends Here

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Aurelie Start Here

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Ethics in reviewing

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A two way street:

- ➊ Provide fair, balanced, ethical reviews
- ➋ Hold authors accountable for their research

Introductory story

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source: <https://www.bbc.com/news/amp/science-environment-34910954>

Introductory story

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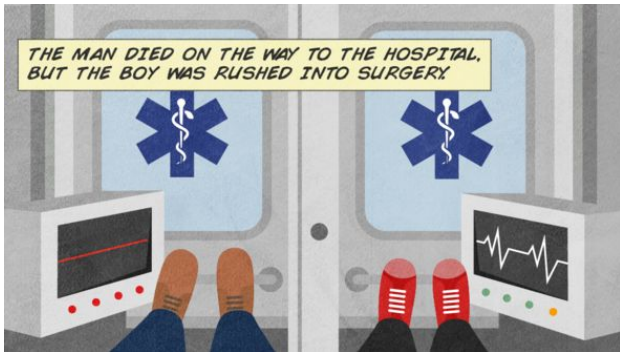
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Introductory story

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Why this statement?

What's the first explanation to pop into your head?

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- Some answers:
 - The son is adopted (biological father and adoptive father)
 - Same sex parents (two fathers)
 - The surgeon is also a catholic priest
 - ...
 - Wait! Could the surgeon be... the MOTHER?
- Why isn't the most simple answer obvious to everyone?
 - **Implicit Bias: surgeon = man**

Implicit bias

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"Bias that results from the tendency to process information based on unconscious associations and feelings, even when these are contrary to one's conscious or declared beliefs"



It doesn't only happen to other people!

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- Project Implicit
 - A research project that investigates social processes involved in social interactions
 - Covers many aspects including social attitudes, health
 - Offers a set of "Implicit Association Tests" (IAT) - free for non commercial use

Exercise: take a test

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Photo: Shutterstock.com/Photo: Shutterstock.com/Photo: Shutterstock.com

<https://implicit.harvard.edu/implicit/takeatest.html>

- Suggested: Gender-Science (will be randomly positioned in left side menu)
- Requires about 10/15 minutes, including filling preliminary question forms and test
- Measures reflex associations between words, ideas, pictures

Results of a sample test: Gender-Science IAT

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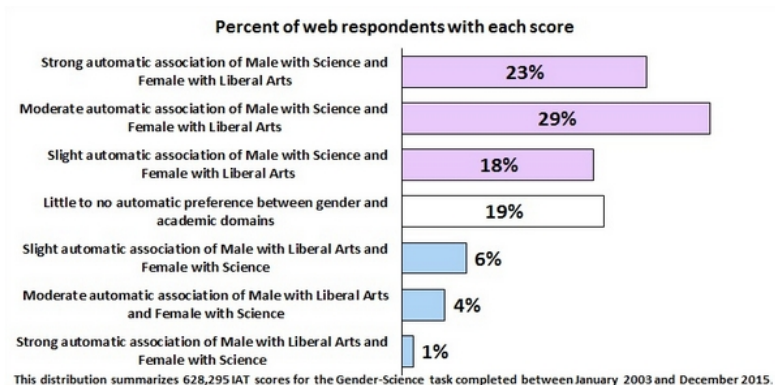
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source: Xu, Kaiyuan et al. "Project Implicit Demo Website Datasets." OSF, 17 Mar. 2020. Web.

How can we handle our biases?

An open question...

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+ Bias awareness can induce guilt and motivation to change behaviour

Parker LR, Monteith MJ, Moss-Racusin CA, Van Camp AR, Promoting concern about gender bias with evidence-based confrontation, J Exp Soc Psychol. 2018;74:8-23



- Stereotype prevalence can create bias reinforcement (everybody else is doing it, so why can't we?)

Duguid MM, Thomas-Hunt MC. Condoning stereotyping? How awareness of stereotyping prevalence impacts expression of stereotypes. J Appl Psychol. 2015;100(2):343-359.

How can we handle our biases?

An open question...

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Qualify your comments where applicable "I am [not] an expert on topic XYZ, and here is my take"



Biases that may affect reviewing

- Gender
- Seniority
- Geography/institution
- Reputation

Kaatz A, Gutierrez B, Carnes M. [Threats to objectivity in peer review: the case of gender](#). Trends in pharmacological sciences. 2014;35(8):371-373.

Okike K, Hug KT, Kocher MS, Leopold SS. [Single-blind vs Double-blind Peer Review in the Setting of Author Prestige](#). JAMA. 2016 Sep 27;316(12):1315-6.

Reviewing models: a balancing act

reviewer accountability vs. bias effect

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Open Review Papers, Reviews and Identities are visible to all parties

Single-Blind Author is known to Reviewer – Reviewer remains unknown to Author

Double-Blind Author is unknown to Reviewer and Reviewer is unknown to Author

Pros and Cons

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open

- Reviewer is accountable
- Authors do not need to withhold scientific content to preserve anonymity
- Reviewer may withhold criticism or face retaliation
- Vulnerable to all biases

Pros and Cons

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single-blind

- Allows the reviewer to be fully honest
- Authors do not need to withhold scientific content to preserve anonymity
- Vulnerable to all biases mentioned above

Pros and Cons

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double-blind

- Avoids various biases
- Allows the reviewer to be fully honest
- Reviewer is not accountable
- Authors may withhold scientific content to preserve anonymity

Holding the reviewers accountable

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- AC/editor's role in the reviewing process
- Secondary reviewers should be declared
- Feedback mechanisms are essential

Holding the authors accountable

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- Check for (self-)plagiarism
- Check for salami slicing
- Check for reproducibility material
- Check for ethical concerns
 - data confidentiality
 - research process

Organizing reviewing and ethics

Making the sausage

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- How do you define and handle conflicts of interest??
 - Are organizers allowed to submit?
- Who should see reviewers' names?
- Organizing the discussion between reviewers
- Transparency of the process:
 - AC names are mentioned somewhere
 - Reviewing process is detailed somewhere
- Rebuttal period / Authors' response
- Meta reviews

Characteristics of Various Venues

(with changes over the years)

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Venue	Blind	Supplements / appendix	Area Chair	Response Period
*ACL	Double	yes	identified	sometimes
EMNLP	Double	yes	identified	yes
IJCAI	Double	no	internal	yes
AAAI	Double	no	internal	yes
LREC	Single	no	no	no
Swisstext	Double	no	internal	no
TALN	Double	no	internal	no
AMIA	Single	no	internal	no

Closing remarks

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- It's been a bumpy ride
- Thank you for your attendance
- Your feedback is welcome
- See (hear) you during the live session!

We would love to hear from you!

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Aurelie End Here

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How to evaluate an innovation claim

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Three most likely possibilities:

- ① There is a well-supported innovation claim
- ② There is a poorly-supported innovation claim
- ③ There is no innovation claim, or only an implied one

What “innovation” means in a research context

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General structure of an innovation claim

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Cohen, Karën
Fort, Margot
Mieskes,
Aurélie Névéol

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Ethics and
reviewing

If you cannot find anything like this structure, there might not actually be an explicit innovation claim in the paper.

Some ways for research to be innovative

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Extra slide: The difference between “innovation” and “significance”

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Exercise: Which of the following makes the strongest innovation claim?

Karen: I don't see the link with what is before, it should probably be in the innovation part (KBC)

- 1 *Able (2016) used a linear model. Baker (2017) used a linear mixed effects model. But, no one has used a support vector machine.*
- 2 *Able (2016) used a linear model. Baker (2017) used a linear mixed effects model. Charlie (2017) used a linear mixed effects model with post-processing. Delta (2017) used a linear mixed effects model with pre-processing. But, no one has used a support vector machine.*
- 3 *Able (2016) used a linear model. Baker (2017) used a mixed effects linear model. Charlie (2017) used a linear mixed effects model with post-processing. Delta (2017) used a linear mixed effects model with pre-processing. But, no one has*



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Kevins Material

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Kevin End Here

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