



# **Reviewing ISMIR Papers** Some Personal Thoughts

#### Meinard Müller

International Audio Laboratories Erlangen meinard.mueller@audiolabs-erlangen.de

Reviewer Q&A Session for ISMIR 2022 Online, May 27, 2022





### Meinard Müller

- Academic Background
  - 1997: Master (Mathematics)
  - 2001: PhD (Computer Science)
  - 2007: Habilitation (Information Retrieval)
  - 2012: Professor (Semantic Audio Processing)

### Personal ISMIR History

- 2003: First ISMIR paper as co-author
- 2012 & 2015: Scientific program chair
- 2009-2021: Member of ISMIR Board
- 2020/2021: President of ISMIR
- IEEE Fellow (Music Signal Processing)
- ACM Senior Member







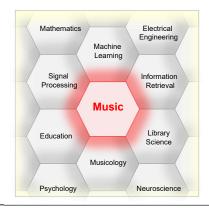
ISMIR

**<b>PIEEE** 

Reviewing ISMIR Papers

### What is MIR?

- Research of computational systems to help humans understand music-related data
- Multifaceted area drawing from a diverse set of disciplines



viewing ISMIR Papers



# © AudioLabs, 2022 Meinard Müller AUDIO LABS

# Why is ISMIR special?



- We all love music and technology ...
- Independent, young, and vibrant community
- Support for next generation of scientists
- Equal focus on research and education
- Encouragement of interdisciplinarity & diversity
- Support of open access and reproducibility

Reviewing ISMIR Papers



### **ISMIR Conference**



- Yearly conference
- Open access to all articles
- Copyright stays with authors
- 200 500 participants (increasing number)
- 100 120 papers accepted (acceptance rate 40 50 %)
- ISMIR is where you get the best feedback for your work on MIR
- ISMIR is where you meet people who know and love MIR

### **Review Decision Process**

- Scientific Program Chairs
  - ISMIR 2022: Masataka Goto, Rafael Caro, Xavier Serra, Rachel Bittner
  - Organize review process
  - Make final decisions (accept vs. reject)
  - Compile scientific program
- Meta Reviewers
  - Help selecting reviewers Review papers
  - Lead discussion phase
  - Provide summary with preliminary decision
- Reviewers
  - Review papers
  - Participate in discussion phase

Reviewing ISMIR Papers Some Personal Thoughts



Reviewing ISMIR Papers



### What Should a Review Achieve?

- Help scientific program chairs making a fair and transparent decision
- Help meta reviewers making a balanced recommendation
- Work out strengths and weaknesses of paper
- Give authors feedback on their work
- Help authors improve their work
- Support and shape the ISMIR community

Reviewing ISMIR Papers Some Personal Thoughts

© AudioLab Meinari



#### What are Possible Evaluation Criteria?

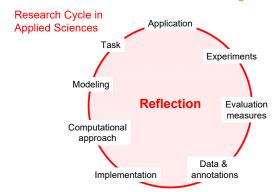
- Appropriateness of topic
  - Does the paper fit into the scope of ISMIR'
- Scientific and technical soundness
  - Is the notation and math correct?
- Reproducibility
  - Can the results can be understood and reproduced?
- Readability & paper organization
  - Are the essential points worked out clearly? Is there a take-home message?
- Stimulation potential
  - May the paper trigger exciting discussions?
- Novelty and relevance
  - Does the paper make some original and substantial "contributions"?
  - Does the paper provide "insights"?

Reviewing ISMIR Papers Some Personal Thoughts

completely



## What is a "Contribution"? What are "Insights"?



Reviewing ISMIR Papers

AudioLabs, 202



# The Blessing and Curse of Applied Sciences

- You can make contributions in many ways
  - Novel application or task
  - Novel computational approach
  - Efficient implementation
  - Novel dataset and annotationsNovel evaluation measures
  - Interesting experiments
  - Interesting experis
- A problem is hardly ever "solved" – so you can always contribute something
- You always miss some aspects

You never "solve" a problem

- Your modelling always goes along with simplifications
- Your work is always vulnerable and disputable



Reviewing ISMIR Papers



AUDIO Iler LABS

## The Blessing and Curse of Interdisciplinarity

- You can make contributions coming from various disciplines
  - Information retrievalSignal processing
  - Musicology
  - Library sciences
  - Human computer interaction
  - Machine learning
  - •
- You can contribute with novel collaborative work
- There are many different perspectives on your work
  - Technical perspective
  - Music perspective
  - Data perspective
  - . ...
- You will never do justice to all disciplines
- Your work is always vulnerable and disputable





© AudioLabs, 2022

Meinard Müller

LABS

# The Blessing and Curse of ISMIR

- Support of young researchers
- Balance in topics and approaches
- High acceptance rate (40-50%)

Accept

- Open exchange of ideas
- Cooperative environment
- Authors and reviewers may have little experience
- Inconsistent reviews
- Paper quality is very mixed
- Get a publication out
- Competitive environment





Reviewing ISMIR Papers

© AudioLab



### What You Should Keep in Mind

- Show respect
- Show that you care and appreciate the article
  - Authors have worked hard
- Stay positive and assume good faith
- Be clear and direct, but also encouraging
- Criticize the work, but not the

wing ISMIR Papers



### What You Should Keep in Mind

- Show respect
- Be detailed and specific
- Short reviews are hardly useful (and may even be harmful)
  - "... I like the paper, and I think it should be accepted ..."
  - " ... This paper offers no technical novelty and should be rejected ..."
- Your review should help
  - Authors
  - Meta reviewers
  - Program chairs / editors
- Justify the score in detail
- However, do not get lost in details (fixing typos, re-writing,  $\dots$ )

Reviewing ISMIR Papers





# What You Should Keep in Mind

- Show respect
- Be detailed and specific
- Make your perspective explicit
- You may mention your background in the review
- Explain which perspective you take
  - "... My background is in music sciences, and I look at the paper from a musicological perspective
  - " ... In the following, I want to comment on the paper from a technical perspective ...'

viewing ISMIR Papers me Personal Thoughts



## What You Should Keep in Mind

- Show respect
- Be detailed and specific
- Make your perspective explicit
- Be honest

- Never write something you are not sure of
- Better admit when you are lost and focus on the aspects you know well
  - ... Since I am not familiar with ... I do not comment on the technical contributions ... However, from an application perspective, I can say that ... "
- Note: We are all learners in almost all areas

Reviewing ISMIR Papers



# What You Should Keep in Mind

- Show respect
- Be detailed and specific
- Make your perspective explicit
- Be honest
- Take a clear position
- Use the whole spectrum of evaluation scores
- If you find a paper outstanding, give it the highest score
- If you think the paper is really bad, give it the lowest score
- Always give convincing support for your recommendation

## What You Should Keep in Mind

- Show respect
- Be detailed and specific
- Make your perspective explicit
- Be honest
- Take a clear position
- Actively participate

- Read guidelines and examples
- Participate in discussion phase
- If you are unsure, ask for help
  - Supervisor
  - Meta reviewers
  - Program chairs / editors
- Better cancel in time than be sloppy Dealing with poor reviews is an editor's worst job

Be reliable and responsive

Chasing after reviewers is an editor's second worst job

Reviewing ISMIR Papers Some Personal Thoughts



Reviewing ISMIR Papers



# Why Should You Become a Reviewer?

- Read interesting articles
- Learn about new research trends
- Get to know "the other side"
- Reflect on your own work and publications
- Support the next generation of researchers
- Become part and give something back to the community

viewing ISMIR Papers me Personal Thoughts

© AudioLabs, 2022
Meinard Müller

A U D I O
L A B S

### Guidelines for Reviewers (ISMIR 2012)





after completing your reviews you should destroy all copies of your energiest papers and accompanying malerial, and enses any implementations you may have written and results you may have obtained to evaluate the ideas in the papers.

you work in the same research group as one of the authory; you have been invoked in the work and will be cardifed in an way (n.g. you have hasted one of the authors in your lad, to call and work related to the paper);

© AudioLabs, 2022
Meinard Müller

A U D I O
L A B S

### Guidelines for Reviewers (ISMIR 2012)





Comments for the Authors

# Ethical Guidelines

- Commitment and Respect
  Confidentiality and Anonymity
- Conflicts of Interest

© AudioLabs, 2022

Meinard Müller

AUDIO
LABS

Literature & Links

 Meinard Müller, Perfecto Herrera, Luis Gustavo Martins, Fabien Gouyon: Guidelines for Reviewers, ISMIR 2012 https://ismir2012.ismir.net/authors/submission/2012\_ISMIR\_GuidelinesReview.pdf

ISMIR Reviewer guidelines (ISMIR website)

Tom Collins: ISMIR Review Examples. 2015 (updated 2019)

Blair Kaneshiro, Jordan B. L. Smith: Insights on the ISMIR Reviewing Experience. ISMIR 2021 Blog https://ismir2021.ismir.net/blog/insights2/

Blair Kaneshiro, Zhiyao Duan, Juhan Nam, Preeti Rao, Peter van Kranenburg, Jordan B.L. Smith: Preparing a Successful ISMIR Submission. ISMIR 2021 Blog

 ISMIR 2022 Review Form https://ismir2022.ismir.net/reviewform

© AudioLabs, 2022 Meinard Müller



Reviewing ISMIR Papers Some Personal Thoughts