

- Founded in 2021
- Drive technical discussion and exchange technical information on machine learning
 - Audio first
 - Leverage existing AES strengths (psychoacoustics, coding, creativity, etc.)
- The discussion on AI/ML has recently moved beyond the purely technical to more craft, professional, and ethics related questions
- We hope this Town Hall will help us to identify actions the AES can take to provide support





AES NY 2023
INNOVATE. CREATE. RESONATE.

New York City
October 25 - 27

Town Hall Facilitators

Gordon Wichern, TC-MLAI Chair, Sr. Principal Research Scientist
MERL - Speech and Audio Team, US

Jonathan Wyner, AES Past President, Engineer, Educator
M Works Studios and Berklee College of Music, US

J. Keith McElveen, Acoustics Researcher, CTO
Wave Sciences, US

Nyssim Lefford, Associate Professor
Luleå University of Technology, Audio Technology, Sweden



Goals and Intentions

- Theme: What should we, in **AES**, be asking about AI in audio? How can AES help?
- Purpose of the town hall: Start a dialog about the community's questions and concerns.
- Scope (*for today*): **Creative Audio Production**
- What is a "town hall"?
- Structure
 - 4 topic-question blocks (Creation, IP, Tool Development and AES initiatives)
 - 15 minutes / block
 - Blocks introduced by invited experts
 - Audience poses questions / makes comments via mic and Slido



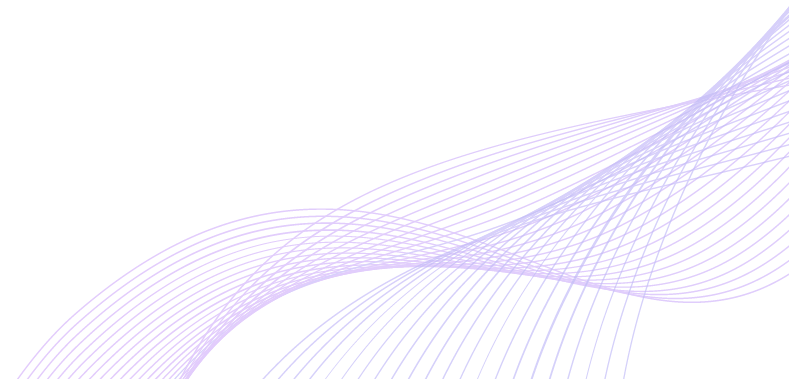
AES NY 2023
INNOVATE. CREATE. RESONATE.

New York City
October 25 - 27

#AESSHOW

Slido

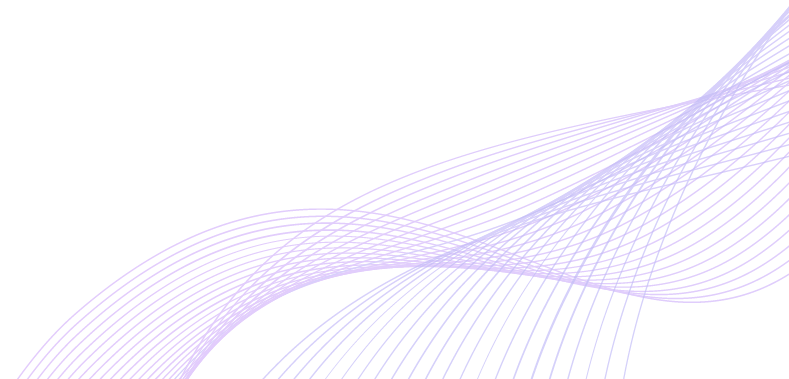
- Participants can join at **slido.com** with **#3508003**
- <https://app.sli.do/event/pzM9umJFzLE5oaso3cMQhq>





Ground Rules

- **Short** comments, 60 seconds
- Today is for learning about concerns, not debating solutions.
- Stay focused on identifying **what we need to be thinking about**
Probably not a lot of “answers”
- Slido has "thumbs up" enabled. **No thumbs down.**
- If your question isn't asked during the question block, submit it later via Slido (remains available for 1 week)



Introducing the Question Blocks

#AESSHOW

Andrew Scheps (Owner, Tonequake/PPUK/Schepsworks, UK) – Creative perspective

Emily Tait (Patent Attorney, Jones Day, US) – IP and Legal perspective

Christian J. Steinmetz (PhD Researcher, Centre for Digital Music, Queen Mary University of London, UK) – (Tool) development perspective

Gordon Wichern (Sr. Principal Research Scientist, MERL - Speech and Audio Team, US) – Summary of key concerns and what AES can do?



AES NY 2023
INNOVATE. CREATE. RESONATE.

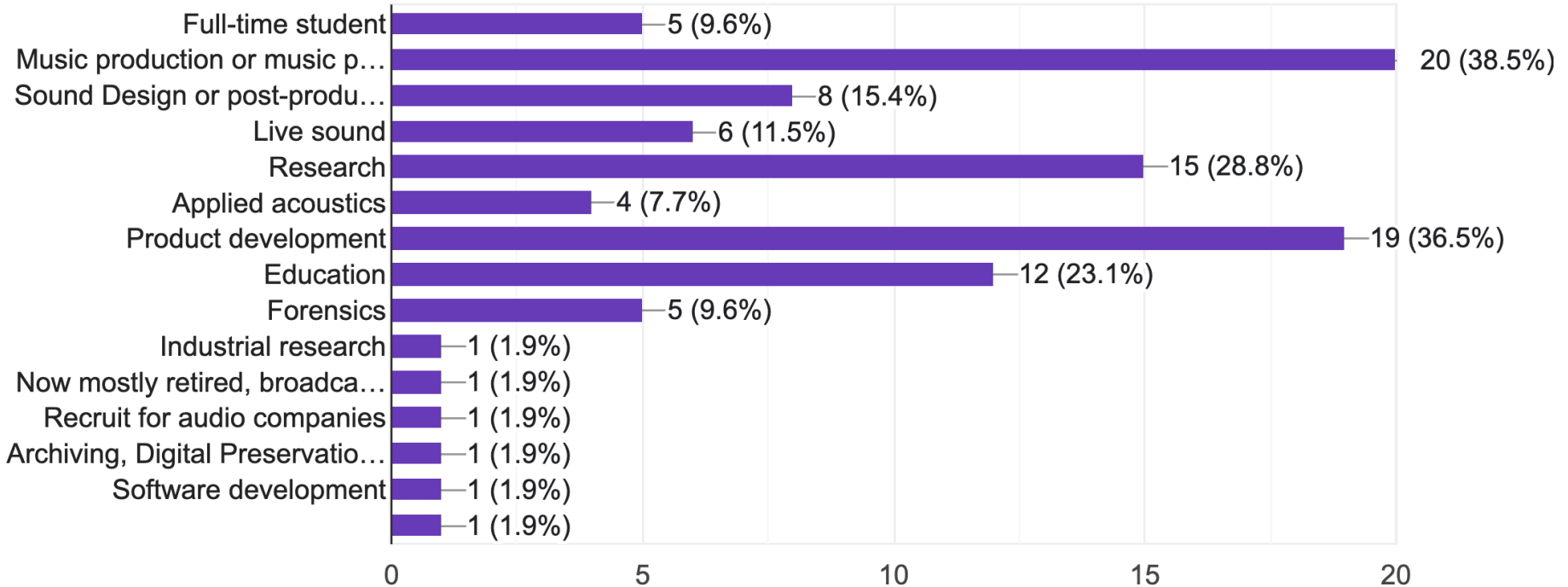
Poll & Statistics

We asked...

- Demographics
- How optimistic or apprehensive you feel about the impact of AI on your work.
- How much creative potential does AI in audio production tools in your own work.
- How much does AI technology to improve efficiency in your work?
- How often are you incorporating AI into your workflow?
- Free text

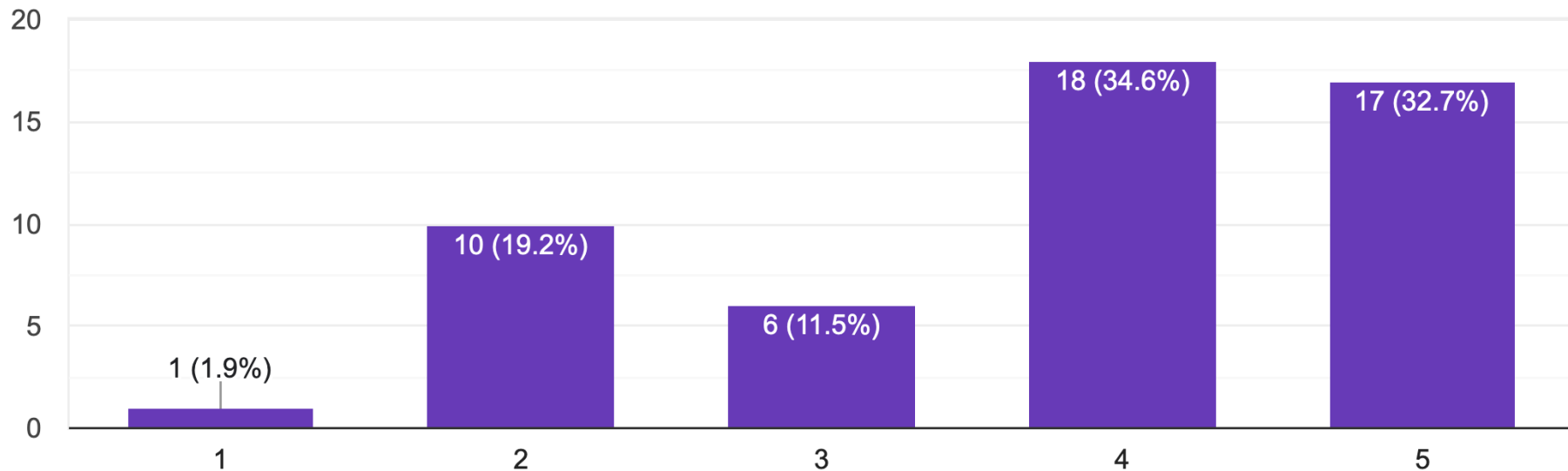
Which of the following areas best describe your work in audio? Check all that apply.

52 responses



How optimistic or apprehensive do you feel about the impact of AI on your work?

52 responses

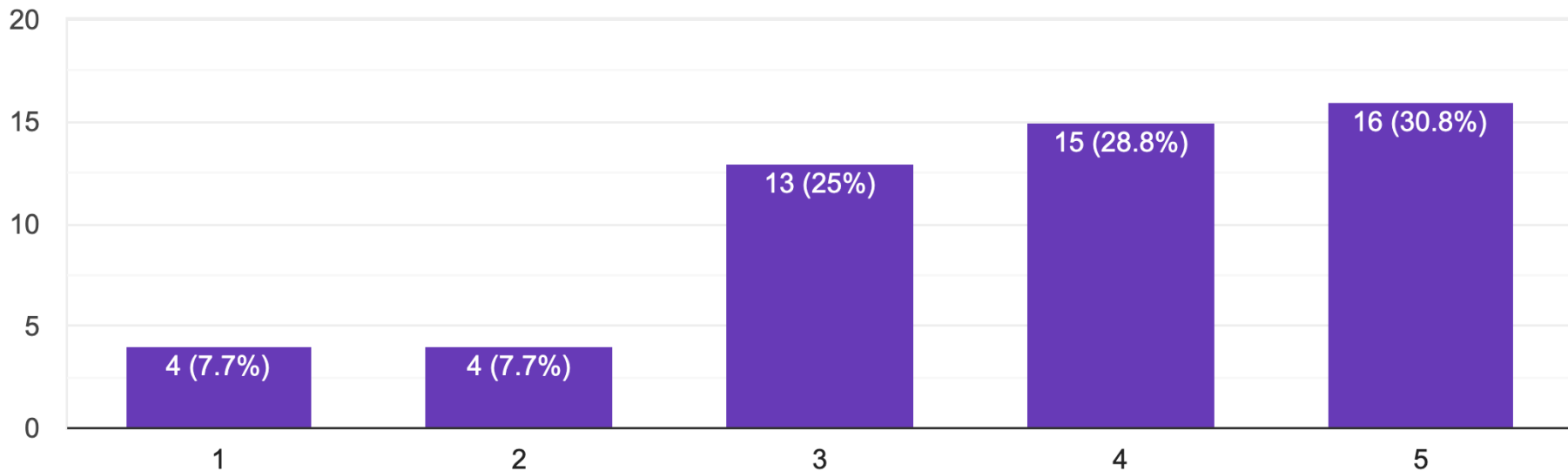


I am very
apprehensive
about the impact
of AI

I am very
optimistic
about the
impact of AI

How much creative potential do you see in the AI technologies used in your area of work?

52 responses

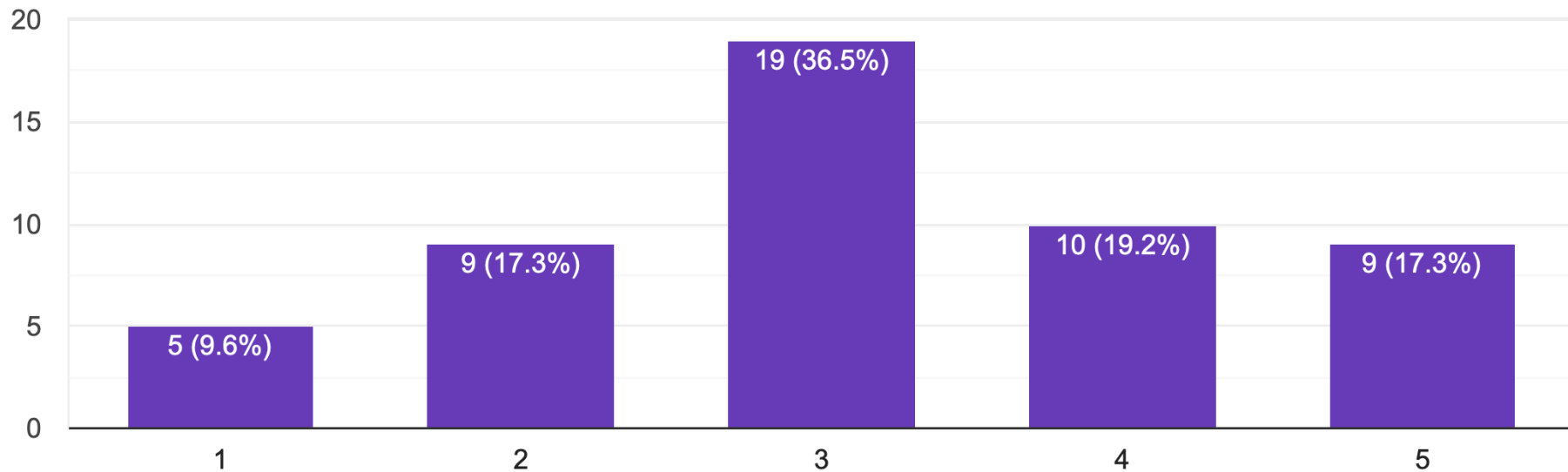


I see no creative potential in AI tools

I see a lot of creative potential in AI tools

How much does AI technology improve efficiency in your work?

52 responses

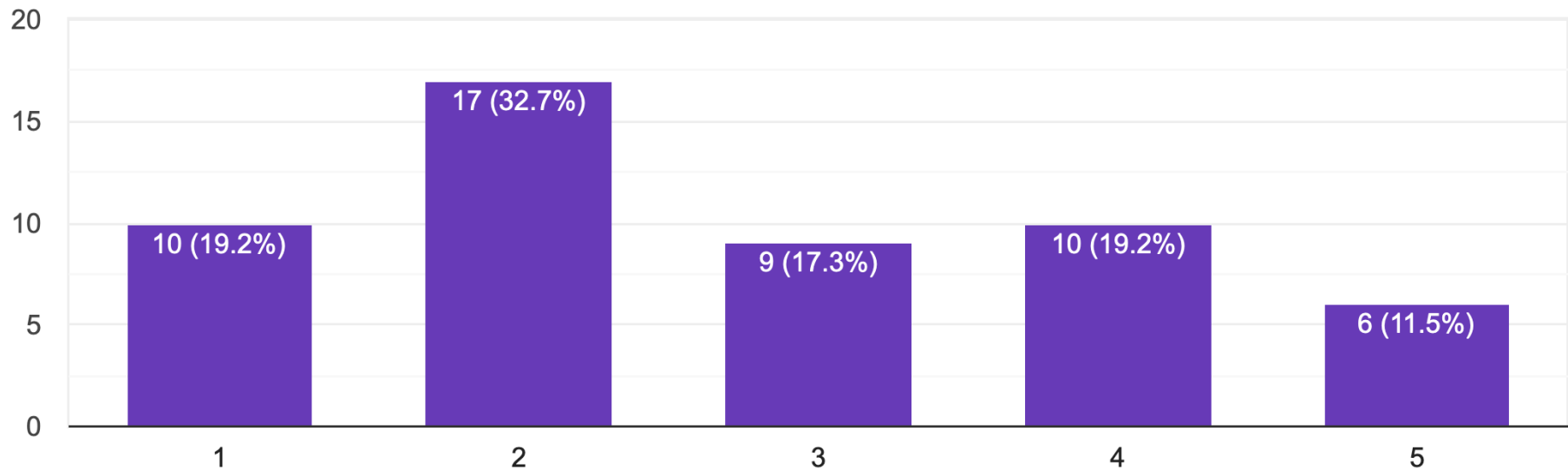


AI does not improve efficiency at all

AI greatly improves efficiency

How often are you incorporating AI technologies into your workflow?

52 responses



I am not
using AI
technologies

AI technologies
are a regular
part of my
workflow

Free Text

- Education: ‘using the terminology correctly. For example ML is AI but AI is not ML...’
-’There are no shortcuts to the top of the coconut tree.’...
- ‘There is no way for a robot to understand human emotions and intentions’
- ‘I would gladly adopt AI/ML tools if they were more assistive, rather than trying to do the things I'm already good at and enjoy doing.
- ‘a pro/con presentation highlighting the human involvement when creating/programming AI regarding the project process.’
- ‘interested in hearing people's thoughts about how these AI plugins within the DAW might be leveraged as creative partners’



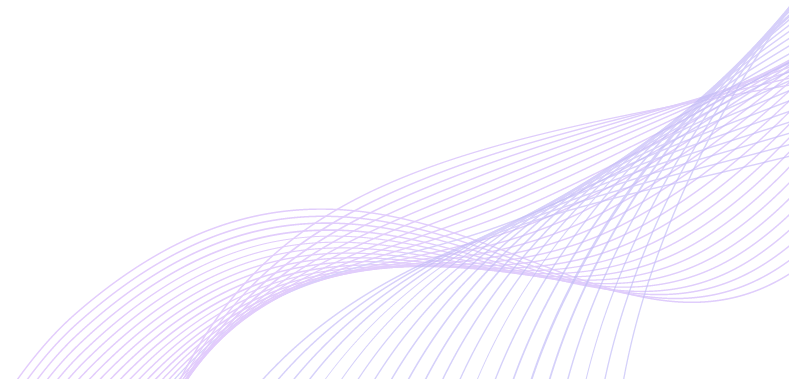
AES NY 2023
INNOVATE. CREATE. RESONATE.

New York City
October 25 - 27

#AESSHOW

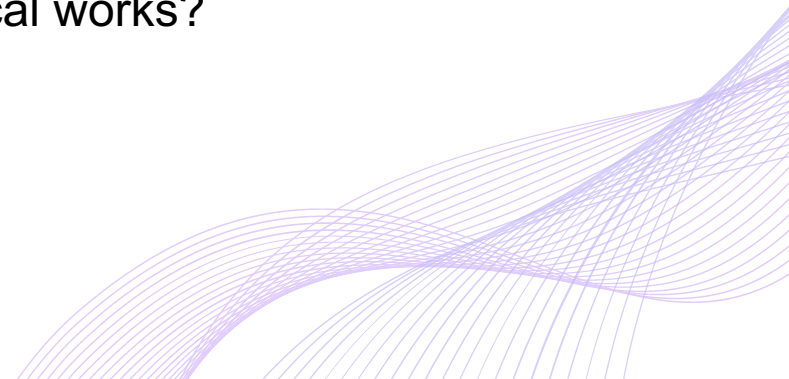
Andrew Scheps – Creative Perspective

- “I can’t imagine that the imperfection of the human touch will be outridden by the perfection of a computer.” - PJ Harvey (musician)



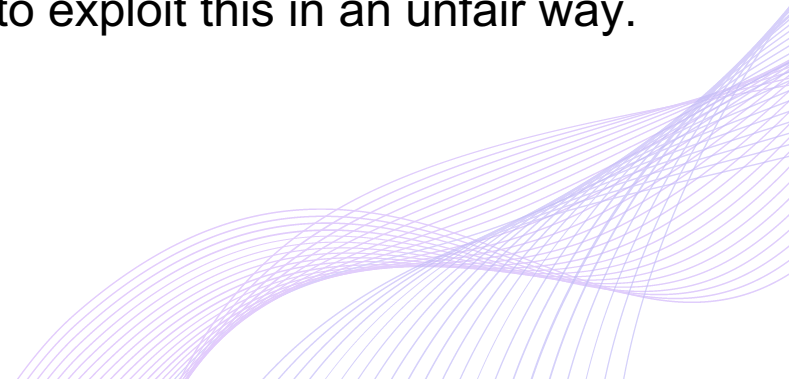


Emily Tait – IP and Legal Perspective

- How has generative AI technology disrupted traditional aspects of intellectual property law such as copyrightability and infringement considerations?
 - What has the US Copyright Office said about AI that may be relevant to this audience?
 - Can you comment on pending court cases involving generative AI technology and copyrighted works, and in particular musical works?
- 



Christian J. Steinmetz – (Tool) Development Perspective

- Do AI music production tools need to be integrated into the DAW, or can standalone and webapps provide additional benefit for amateurs and pros alike?
 - As AI continues to lower the barrier for creating content, where should artists focus their creativity in the music production process?
 - Can an audio engineer protect their “style”? Currently it may be acceptable to emulate engineers, but AI may enable people to exploit this in an unfair way.
- 



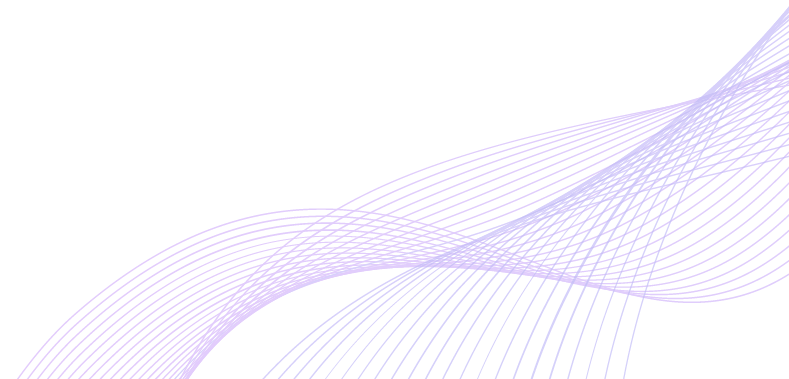
AES NY 2023
INNOVATE. CREATE. RESONATE.

New York City
October 25 - 27

#AESSHOW

Gordon Wichern – AES TC-MLAI Perspective

- What can the TC-MLAI do to make progress on the topics we discussed today?





Answer our survey / contribute questions

- Survey link in Sched
- Slido will remain open for one week (02-Nov)
- Participants can join at **slido.com** with **#3508003**
- <https://app.sli.do/event/pzM9umJFzLE5oaso3cMQhq>

