







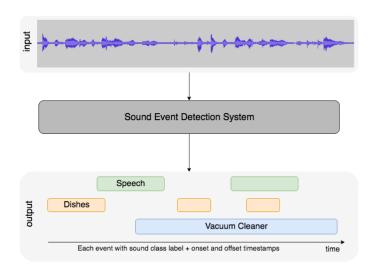
Task 4 highlights

Romain Serizel¹, Francesca Ronchini¹, <u>Nicolas Turpault¹</u>, Samuele Cornell², Eduardo Fonseca³, Daniel P.W. Ellis³

¹Université de Lorraine, CNRS, Inria, Loria ²Università Politecnica delle Marche ³Google, Inc.

Sound event detection in domestic environment

- Detecting sound events in 10 s domestic audio files
- Motivation: assisted living, surveillance, smart home applications
- Examples: Alarm the user when hazardous events appear





2022 Novelties

Allowing some pre-trained models (from Ausioset, AST, ...)



Introducing the use of Audioset strong



 Suggesting an energy based metric to sensitize on environmental impact





Submissions

- 99 submissions :
 - >28 Teams / 110 Authors
 - > +25% compared to 2021
- Best system: 1.63 vs 1.4 in 2021:
- 23
- > Do we update the metric including energy?
- > Complexity: 1.2M to 780M params (fewly correlated with score)

