



## Code

- a) An open-source, large-scale, stereo audio **dataset** with spatial captions.
- b) An one-stage, controllable, spatial audio generation **framework**.
- c) a series of subjective and objective **metrics** based on ITD and opinion score.

- Developing a semi-automated pipeline to create an open-source, large-scale, stereo audio dataset with spatial captions, **BEWO-1M** and supporting both large-scale training and precise evaluation.
- Totally, we constructed **2.8k hours** of training audio with more than **1M** audio-text pairs and approximately 17 hours of validation data with 6.2k pairs. To the best of our knowledge, this work represents the first attempt to address these issues.

- The proposed SpatialSonic takes azimuth as precise guidance and generate spatial audio with one stage behaviour.

Some important results of the subset (3/5)