Speech Enhancement Topics
Overview

1. A real-time low-resource SE model (<50M Flops, <2MB) for 44.1kHz speech.

   - For Lark meetings usage.

   - Main efforts is on bad cases repairments.

2. A speech enhancement model build with weakly labeled data from AudioSet.

   - Only contribute to the experiment parts. But the idea is worth sharing.

Speech Enhancement
Low resource and real-time

- Task: Build a real-time low-resource SE model (<50M Flops, <2MB) for 44.1kHz speech.

- Main efforts:

  - Data augmentations according to bad cases.

    - High reverberation, low frequency losses, bubble and keyboard noise, etc.

  - Input feature selections

    - MFCC, Energy feature, Delta feature and Mel spec.

  - Final model architectures.

    - Two layers of GRUs and linear layers.