

Overview

- **Music Source Separation (MSS), 25mins**
 - Introductions & Related works
 - Motivation1: MSS empirical upper bounds
 - Motivation2: Channel-wise subband feature
 - Proposed model: Channel-wise subband phase-aware ResUNet (CWS-PResUNet)
- **General Speech Quality Restoration (GSR), 25mins**
 - Introductions & Related works
 - Motivation1: Single task speech restoration & weaknesses
 - Motivation2: Universal Speech Vocoder
 - Proposed model: VoiceFixer

Introductions

Speech Quality Restoration

- This project start from speech super resolution.
 - Generalization problem.
 - Bandwidth, filter type, filter order, ...
 - Application problem.