

Related works

Frequency domain methods

1. Directly mapping: $|\hat{S}| = f(|X|; \Theta), \hat{S} = |\hat{S}| e^{j\angle X}$
2. Ideal Binary Mask: $|\hat{S}| = |\hat{M}| \odot |X|, |\hat{M}| \in \{0,1\}$
3. Ideal Ratio Mask: $|\hat{S}| = |\hat{M}| \odot |X|, |\hat{M}| \in [0,1]$
4. Complex Ideal Ratio Mask: $S = MX = |M| |X| e^{j(\angle M + \angle X)}$

S : source estimation; X : mixture; M : mask estimation.

Related works

Frequency domain methods

- What's the difference between image and spectrogram (spec)?
 - Overlapping pixel.
 - Ignore: Ideal binary mask (IBM) estimation.
 - Otherwise: Ideal ratio mask (IRM) estimation.
 - Spectrogram has complexed value
 - Ignore: Estimate IRM on magnitude spec, reuse mixture phase.
 - Otherwise: Estimate complex Ideal ratio mask (cIRM)