Related Papers

- **Music Source Separations:**
  - Liu, H., Xie, L., Wu, J., & Yang, G. (2020). Channel-wise subband input for better voice and accompaniment separation on high resolution music. arXiv preprint arXiv:2008.05216.
  - Liu, H., Kong, Q., Liu, J. (2021). Music source separation with channel-wise subband phase-aware ResUNet. ISMIR Music Demixing Workshop.
  - Kong, Q., Cao, Y., Liu, H., Choi, K., & Wang, Y. (2021). Decoupling magnitude and phase estimation with deep resunet for music source separation. arXiv preprint arXiv:2109.05418.
- **Speech Enhancement:**
  - Kong, Q., Liu, H., Du, X., Chen, L., Xia, R., & Wang, Y. (2021). Speech enhancement with weakly labelled data from AudioSet. arXiv preprint arXiv:2102.09971.
- **General Speech Restoration:**
  - Liu, H., Kong, Q., Tian, Q., Zhao, Y., Wang, D., Huang, C., & Wang, Y. (2021). VoiceFixer: Toward General Speech Restoration with Neural Vocoder. arXiv preprint arXiv:2109.13731.

Related Materials

- Open sourced codebase for music source separation (code, pretrained).
- Open sourced codebase for general speech restoration (code, pretrained).
- A tool for PyTorch subband operations (link).
- A tool for sound event detection (link).