Abstract

Music signal processing has matured over the years. Most of the techniques applied to music signal were originally developed for speech signal; the results observed have been quite satisfactory. In music domain, there are lot many challenges faced with respect to the storage and transmission of large data base. In this paper, we try to address the above stated problems with help of growing compressive sensing field. The aim is to extract the features of the signal with aid of the basis which will in turn reduce the number of samples to be stored or transmitted. Also, our goal is to successfully demonstrate the recovery of the signal without hampering the inner characteristics and the melody of the signal.

References

Analysis of Music Signal Compression with Compressive Sensing

- Chunghsin Yeh, Axel Roebel and Xavier Rodet, Multiple Fundamental Frequency Estimation and Polyphony Inference of Polyphonic Music Signals, IEEE transactions on audio, speech, and language processing, 18(6), August 2010

Index Terms

Computer Science

Signal Processing
Keywords
- Basis matrices
- Discrete Fourier Transform
- Measurement matrix
- Music signal
- Recovery algorithm