## Music Clip Identification with Randomized Locality Sensitive Hash Tables

Padraig S. Lysandrou Samuel W. Wishnek

The University of Colorado Boulder, Boulder, CO 80301

https://github.com/Lysandr/minHash\_Shazam

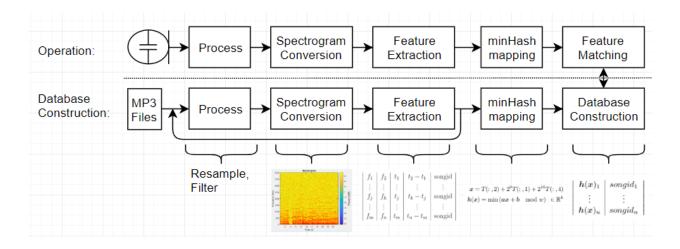


Figure 1: Block diagram describing the numerical processes of our algorithm.

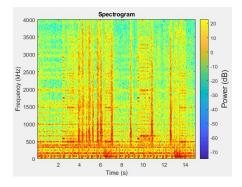
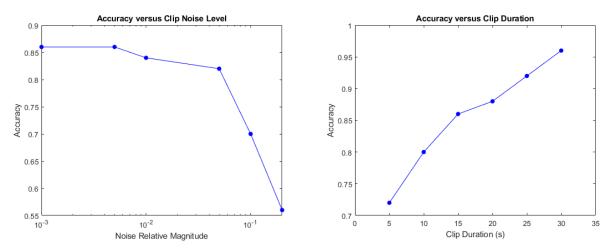


Figure 2: A clip of Darude - Sandstorm after processing and spectrogram conversion.



**a)** Predictably, identification accuracy decreased with the addition of **b)** Predictably, as the duration of the sample clip provided increased, so noise. However, the algorithm was still relatively robust for many songs. did the identification accuracy.

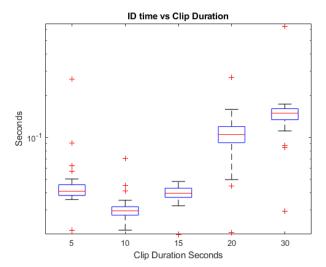


Figure 3: Box and whisker plot showing the spread of execution times for duration of clip. Note the y-axis is logarithmic.