

Self-supervision in Audio Fingerprinting

Aditya Bhattacharjee

2022

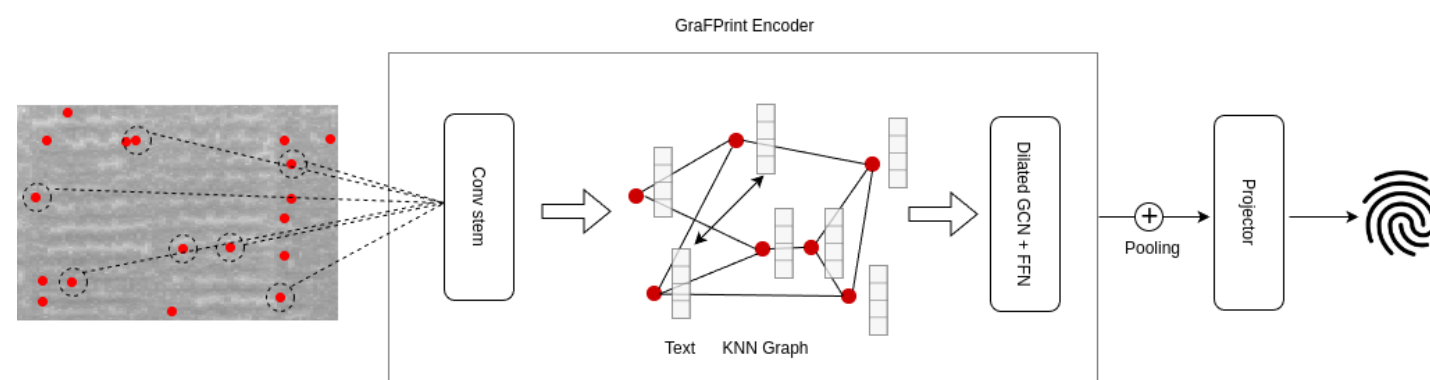


Fig. 1: Schematic design of the GraFPrint Encoder

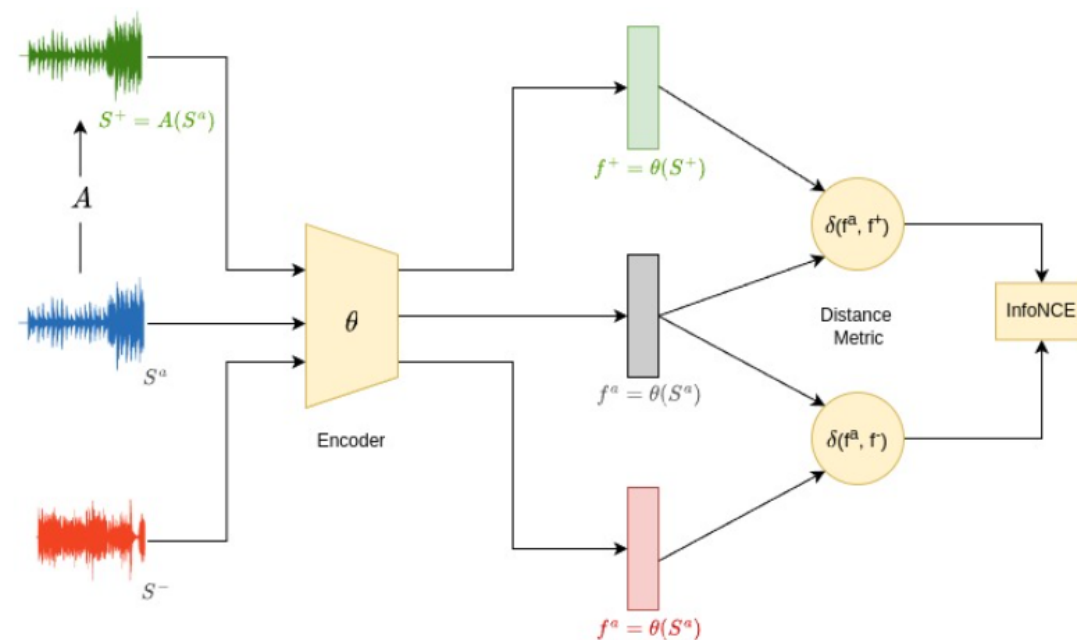


Fig. 2: Data pathways for the self-supervised contrastive training

Finding

Data and network parameter requirements for self-supervised audio fingerprinting are lower than other downstream classification tasks. Lightweight network architectures with informed design choices have been shown to achieve comparable to SOTA performance.

Question

Can self-supervised audio fingerprinting be extended to the task of identification of cases of sampling in musical recordings? Can such a system be objectively evaluated?