AIM Summer School 2024

Self-supervision in Audio Fingerprinting

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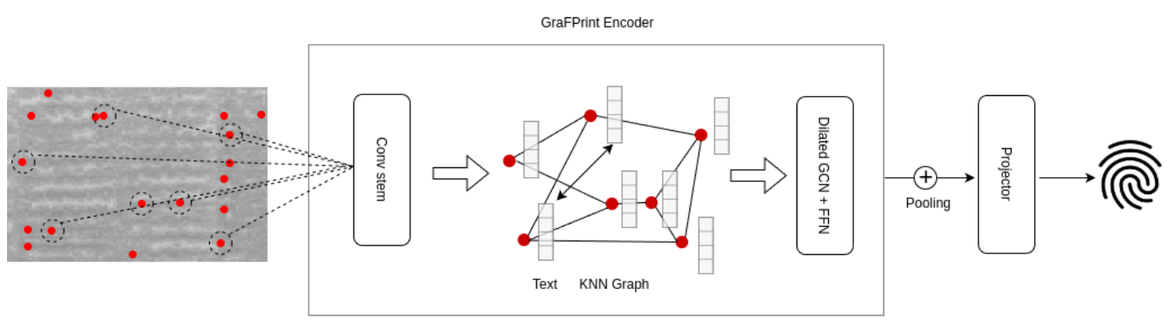

Fig. 1: Schematic design of the GraFPrint Encoder

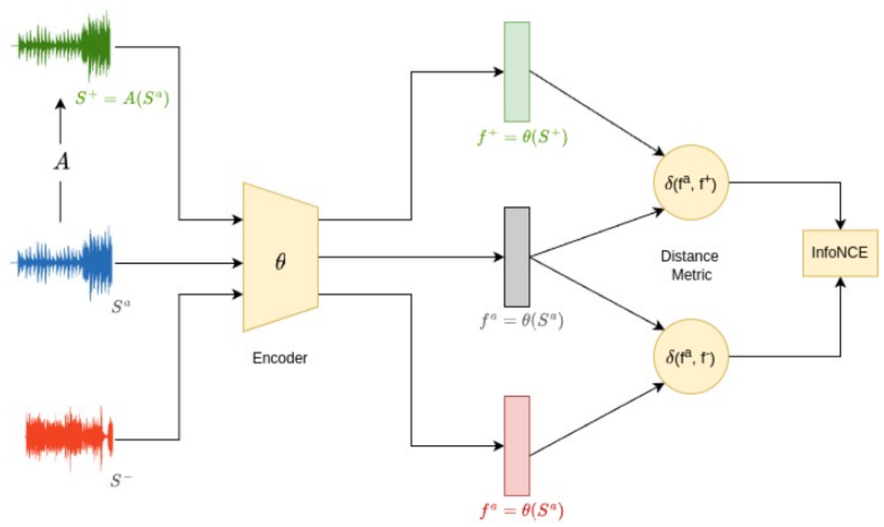

Fig. 2: Data pathways for the self-supervised contrastive training

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?

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