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Real-Time Expressive Automatic DJ Mixing of Electronic Dance Music and Digital Audio Workstation Applications

A literature review revealed that methods for automatic evaluation of DJ mixes are few and inconsistent. The length of DJ mixes make listening tests impractical and results are subjective to listener tastes. There are also multiple lenses by which to evaluate a DJ mix at the individual transition and song level and in the sequencing of a complete mix.

Questions remain about how to computationally evaluate and compare DJ mixes in a quantitative way. How do we compute concise and objective measures of the quality and properties of DJ mixes at different temporal resolutions that also reflect subjective differences? Further, what factors affect these qualities and can we control them?