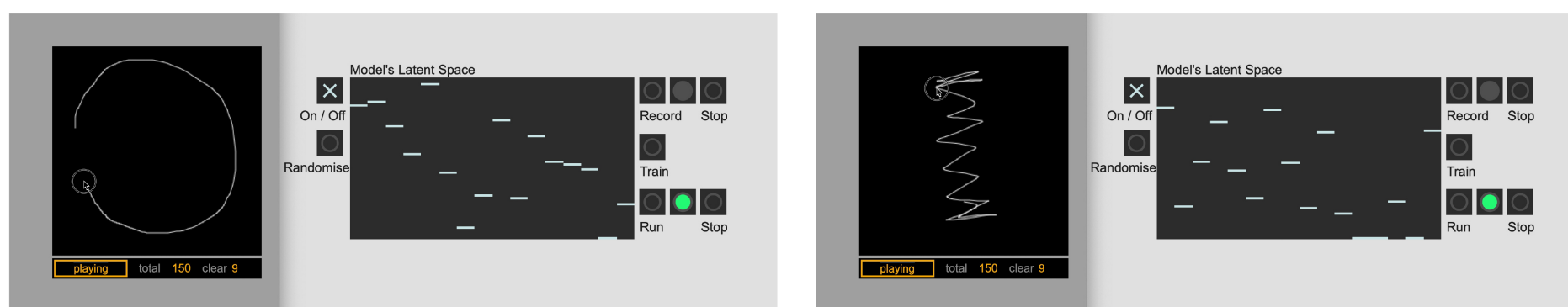


Transparent and Understandable Neural Synthesiser Instruments

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2023



Finding

A literature review about state-of-the-art methods for explainable neural audio synthesis and latent space explanation, issues and challenges in real-time interaction with neural audio models, and existing evaluation metrics for explainability in the context of generative AI and the arts.

Question

How can techniques in explainable AI be used to create human-understandable features for a neural synthesiser instrument? And how can these explainable controls be tailored into the context of music sound design and production?