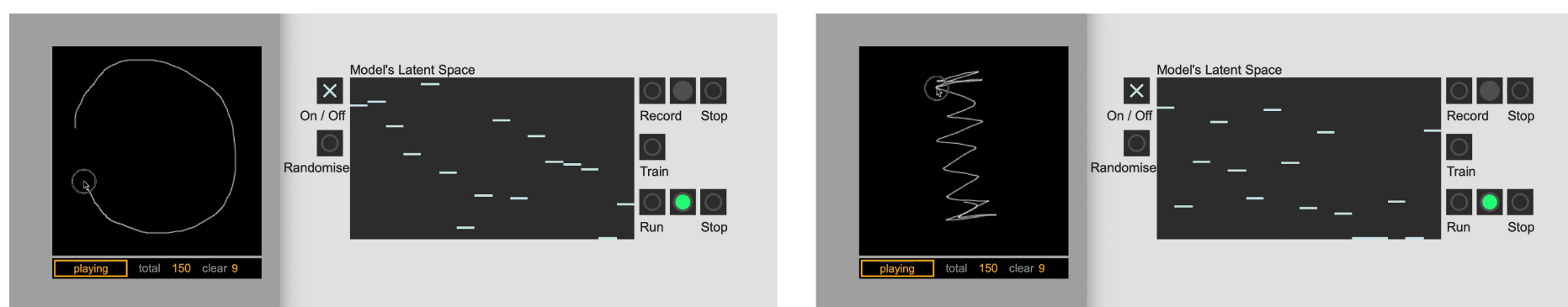


# Transparent and Understandable Neural Synthesiser Instruments

Shuoyang Zheng

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## 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?