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Automatic Audio-to-Score Piano Transcription with Deep Neural Networks

A2S Transcription converts a music recording into a readable musical score format. In my research, I explored deep learning methods including the use of sequence-to-sequence models, the attention mechanism, and convolutional-recurrent neural networks applied for holistic and pipeline-based piano transcription.

How do we develop better systems for cross-instrument music transcription? How can we avoid using large datasets in transcription systems?