AIM Summer School 2024

Timbre Transfer for Musical Instrument Interaction

Franco Caspe

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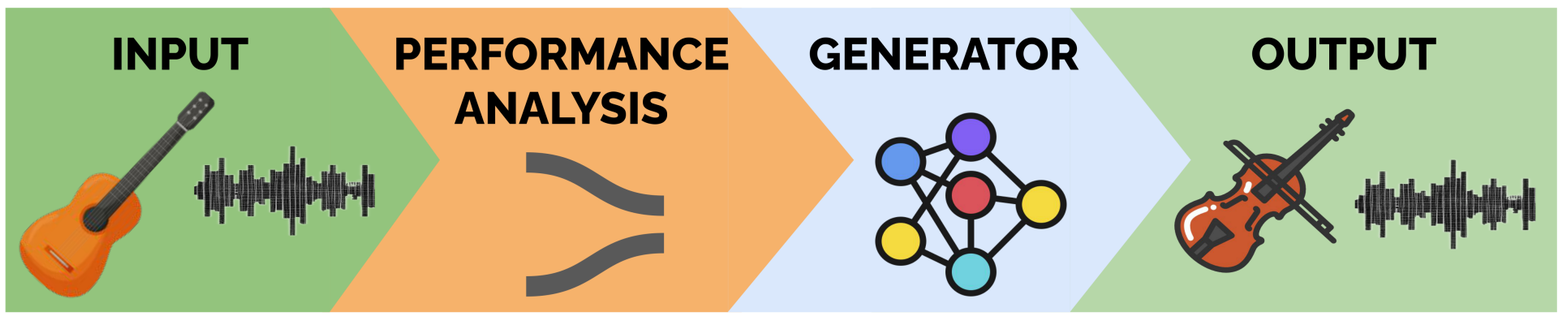

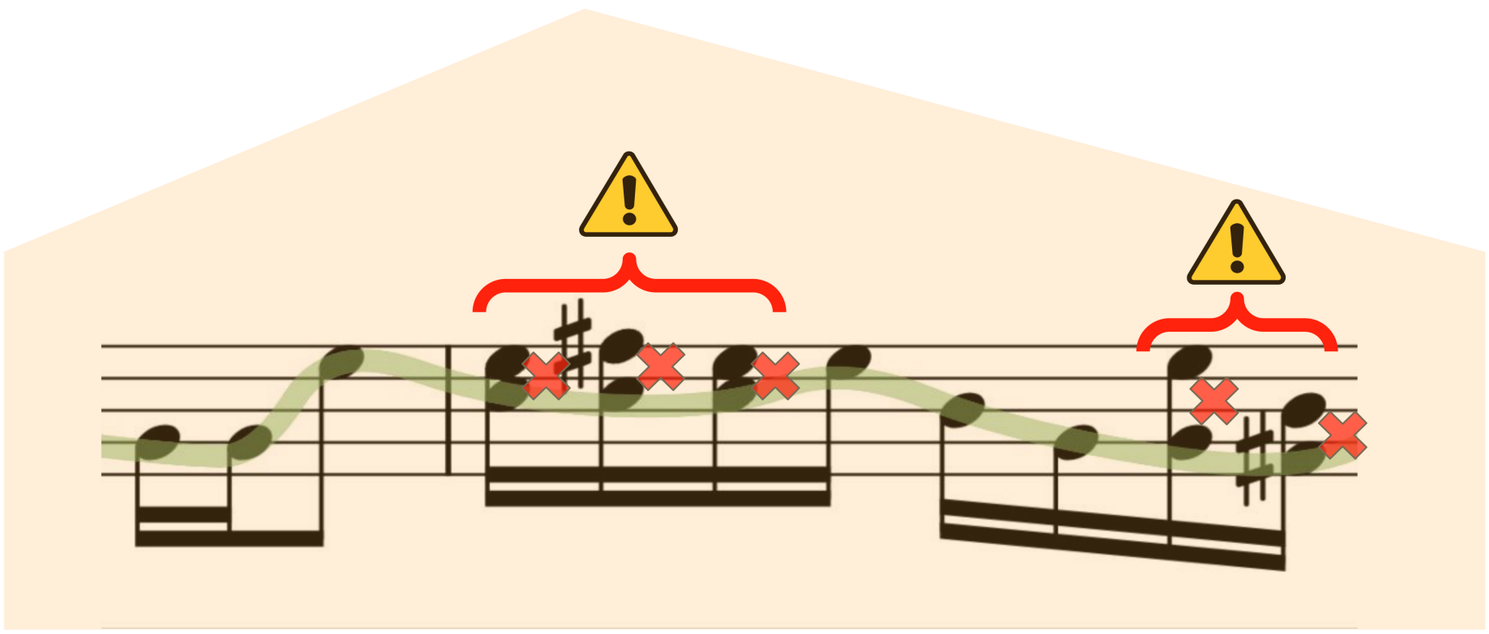

Finding

Current real-time Timbre Transfer algorithms impose an interpretative bottleneck to music performance through implicit or explicit rules. The events that don't comply with this may generate sonic outcomes unexpected to the player, breaking their expectations and forcing them to adapt their performance to the system.

Question

I am interested in pitch & harmony preserving Timbre Transfer. However, imposing a detection bottleneck may lead to failure modes we call ambiguity shifts. How can we relax these assumptions to allow for ambiguous input/output? And what may be an acceptable outcome from that input?

Supervisor(s): Mark Sandler, Andrew McPherson