Dual-function Interfaces: the traditional musical instrument and/as samplers

Jamie Howell

PhD, University of Southampton, UK jdh le 16@soton.ac.uk

Oliver Sellwood

Lecturer, University of the Arts London, UK o.sellwood@lcc.arts.ac.uk

Overview

- 1. Introduction to the project
- 1. Background
- 1. Analysis of works-in-progress
- 1. Reflections on challenges and future development
- 1. Performance of both works-in-progress
- 1. Q & A

Compositional Questions

• How do we retain the highly developed relationship between instrument and instrumentalist in hybrid performance environments?

• How can we give performers control of digital systems without disrupting this relationship?

• How can we shape listeners' experience of these hybrid environments?

Introduction to the project

• Instrumentalists sample one another in real time

 Sample recording and playback is facilitated by additions and extensions to the instruments

• These additions and extensions should have as little impact as possible on the playing of the instrument

BACKGROUND





IDENTICAL



Thor Magnusson, "Ergodynamics and a Semiotics of Instrumental Composition," Tempo 73, no. 287 (2018): 44
[Image by presenters]





"For Merleau-Ponty, technology—be this musical-instrumental technology or any other kind—was always entangled with the ways it was used, and in the ways in which certain types of use became naturalised, habitualised, and automatic for the user...This habitualisation as such goes beyond the automatic, going so far as to make that piece of technology—momentarily at least—fade out of view."

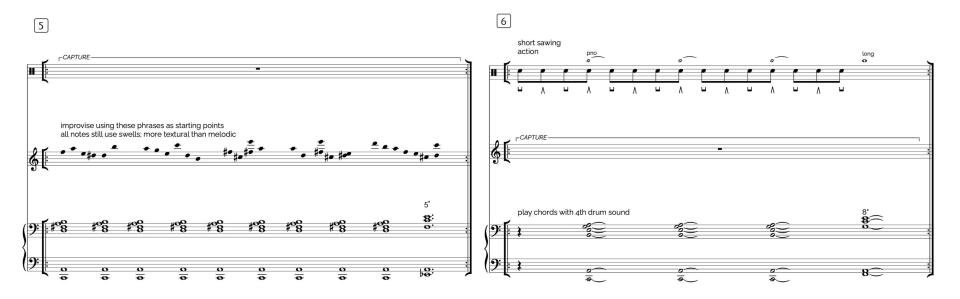
Samuel Wilson, "Building an Instrument, Building an Instrumentalist: Helmut Lachenmann's Serynade," Contemporary Music Review 32, no. 5 (2013): 429

STREAMS (2024)

Streams



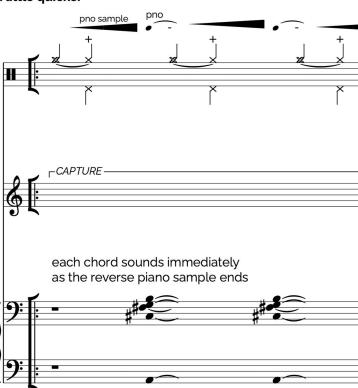
Streams



Streams

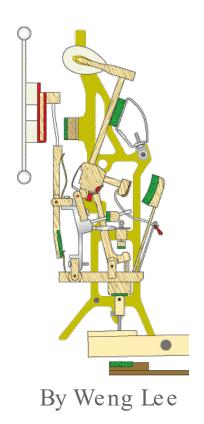


a little quicker



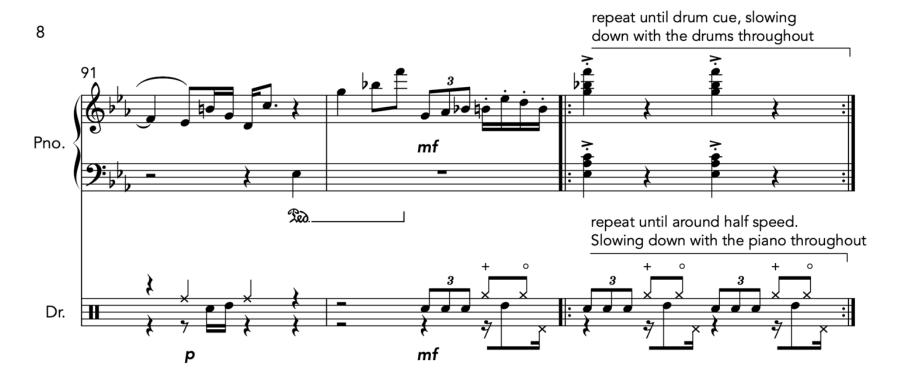
DESIGNATE (2024)

Piano set-up





Excerpt from *Designate*



"To the extent that they are expected to convey liveness in performance, musicians must also communicate connections between physical gestures and resultant sounds to their audiences."

Mark J. Butler, Playing with Something That Runs: Technology, Improvisation, and Composition in DJ and Laptop Performance. (Oxford: Oxford University Press, 2014), 99.

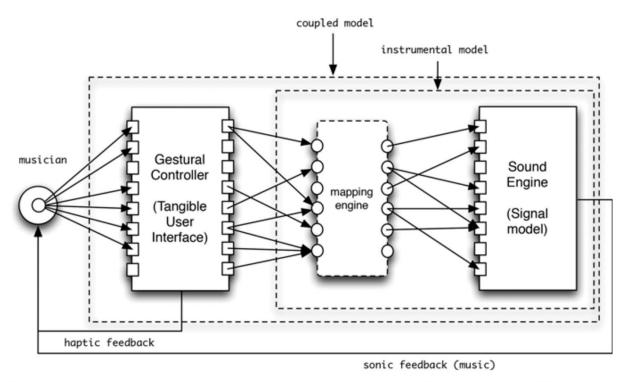


Figure 2.1 A typical explanatory model of an electronic musical instrument (see Wanderley 2000; Leman 2008; Wessel and Wright 2001). New musical instruments typically consist of these three elements. © Thor Magnusson.

Thor Magnusson, Sonic Writing: Technologies of Material, Symbolic and Signal Inscriptions, (London: Bloomsbury Academic, 2019), 36.

REFLECTIONS

Excerpt from the instruction page of *Streams*

	Begin capture	Stop capture [can be pressed in quick succession]
Drummer (sampling piano)	G	G# - A - A#
Guitarist (sampling drums)	С	C# - D - D#

Excerpt from *Designate*



Performance

Designate (2024) - Olly Sellwood

Piano: Frankie Dyson Reilly

Drumkit: Jamie Howell

Run time approx. 5 minutes

Streams(2024) - Jamie Howell

Piano: Frankie Dyson Reilly

Drumkit: Jamie Howell

Guitar: Notto Johannes Windju Thelle

Run time approx. 6 minutes

References

Butler, Mark J. *Playing with Something That Runs: Technology, Improvisation, and Composition in DJ and Laptop Performance*. Oxford: Oxford University Press, 2014.

Magnusson, Thor. "Ergodynamics and a Semiotics of Instrumental Composition." Tempo 73, no. 287 (2018): 41-51.

Magnusson, Thor. Sonic Writing: Technologies of Material, Symbolic & Signal Inscriptions London: Bloomsbury Academic, 2019.

Nemtsov, Sarah. Implicated Amplification. Unpublished, 2014.

Schubert, Alexander. Laplace Tiger. Unpublished, 2009.

Wilson, Samuel. "Building an Instrument, Building an Instrumentalist: Helmut Lachenmann's Serynade." Contemporary Music Review 32, no. 5 (2013): 425 – 436.