



Lamberto Caccioli

Touch

piano and live electronics

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Programme Notes

Touch represents an experiment in transparent electronics. I wanted to create a performing environment where technology expands, magnifies and projects the musical gestures of the performer. Four identical musical objects are observed from different points of view, each time using a different transformation tool in order to emphasize a different aspect of piano playing: touch, resonance, the harmonic and melodic dimensions.

The performer is completely in control of the technology and external intervention is kept to a minimum. I achieved this by creating an interface that reacts to the nuances of musical performance in a very subtle way. Specific attention has been given to the detection of the attack of the piano sound: the player's touch triggers each time the whole transformation process.

Performance Notes

The performance requires another person to operate the computer and control the sound diffusion.

The electronics consist in a Max software patch available online at <https://lambertococcioli.com/touch>. The score indicates which "performance environment" needs to be loaded at the beginning of each section.

Technical requirements for the performance (*minimum* requirements in brackets):

- Computer (Mac or PC) running Max software, available at <https://cycling74.com/products/max>
- 4 in/8 out audio interface (*4 in/4 out*)
- 1 small condenser microphone to be placed inside the piano for detection
- 2 condenser microphones or a stereo pair on stands for piano amplification
- 6-point sound diffusion system with 6 speakers placed around the audience: front L/R 1-2, sides L/R 3-4, rear L/R 5-6 (*4-point, front L/R 1-2, rear L/R 3-4*)

10

* Ped. * Ped. * Ped. * Ped. * Ped.

15

* Ped. * Ped. *

20

ff
f
mf
f
p
mp

Electronics: Resonance 2

3

Detailed description: This system contains measures 20 through 23. It is written for a grand piano in 4/4 time. The key signature has two flats (B-flat and E-flat). Measure 20 starts with a fortissimo (ff) dynamic. A box labeled 'Electronics: Resonance 2' is placed over the first two measures. Dynamics progress from ff to f, then mf, f, p, and finally mp. A triplet of eighth notes is marked with a '3' in measure 23.

24

mf
f
pp
cresc. molto
f

Detailed description: This system contains measures 24 through 27. The piano part features a triplet of eighth notes in measure 24. Dynamics include mezzo-forte (mf), forte (f), pianissimo (pp), a crescendo marked 'cresc. molto', and forte (f). The music is characterized by long, sustained notes and complex chordal textures.

28

p
f
p
mf

3

Detailed description: This system contains measures 28 through 30. It begins with a piano (p) dynamic, followed by a forte (f) section. A triplet of eighth notes is marked with a '3' in measure 29. The dynamics then move to piano (p) and mezzo-forte (mf). The piano part has a long, sustained chordal structure.

31

p
mf
p
mf
f

Detailed description: This system contains measures 31 through 34. Dynamics fluctuate between piano (p), mezzo-forte (mf), and forte (f). The piano part features a complex, multi-layered texture with many notes, while the treble part has more melodic lines.

♩ = 60

35

p *espress.*

Electronics: Resonance 3

5

39

3

3

3

3

5

43

3

3

3

5

47

3

3

3

♩ = 84

52

mf *mf* *ff*

Electronics: Delays 1

54

mp *p* *pp*

57

mf *f* *p*

60

p *ff*

62 *pp legatissimo* *simile*

63 *non crescendo!*

65 *mf* *crescendo* *p*

67 *molto cresc.* *fff* *f* *p*

70

mf *p* *p espress.*

Measures 70-73: Treble clef, key signature of two flats. Measure 70 has a rest. Measure 71 starts with a *mf* dynamic. Measure 72 has a *p* dynamic. Measure 73 has a *p espress.* dynamic and a triplet of eighth notes. Bass clef accompaniment is present throughout.

74

Measures 74-76: Treble clef, key signature of two flats. Measure 74 has a 3/4 time signature. Measure 75 has a 3/8 time signature. Measure 76 has a 4/4 time signature. Bass clef accompaniment is present throughout.

77

Measures 77-80: Treble clef, key signature of two flats. Measure 77 has a 3/4 time signature. Measure 78 has a 3/8 time signature. Measure 79 has a 4/4 time signature. Measure 80 has a 3/4 time signature. Bass clef accompaniment is present throughout.

81

poco rallentando

Measures 81-84: Treble clef, key signature of two flats. Measure 81 has a 3/4 time signature. Measure 82 has a 3/8 time signature. Measure 83 has a 4/4 time signature. Measure 84 has a 3/4 time signature. Bass clef accompaniment is present throughout. The instruction *poco rallentando* is written above the staff.

♩ = 60

84

p *espress.*

Electronics: Harnos 1

88

92

96

101

ff
Electronics: Harnos 2
f mf f p mp

3

3

Detailed description: This system contains measures 101 through 104. It features two staves, treble and bass. Measure 101 starts with a forte fortissimo (ff) dynamic. A box labeled 'Electronics: Harnos 2' is placed in the treble staff. Dynamics progress through f, mf, f, p, and mp. Measure 104 concludes with a triplet of notes in both staves.

105

mf f pp cresc. molto f

Detailed description: This system contains measures 105 through 108. Dynamics include mf, f, pp, and a crescendo leading to f. Measure 108 features a 'cresc. molto f' dynamic. The music is written for two staves with various articulations and phrasing.

109

p f p mf

3

Detailed description: This system contains measures 109 through 111. Dynamics include p, f, p, and mf. Measure 110 features a triplet of notes in the treble staff. The music is written for two staves with various articulations and phrasing.

112

p mf p mf f

Detailed description: This system contains measures 112 through 115. Dynamics include p, mf, p, mf, and f. The music is written for two staves with various articulations and phrasing.

♩ = 84

116

mf

ff

Electronics: Delays 1

118

mp

pp

121

mf

f

p

124

p

ff

126 *pp legatissimo* *simile*

127 *8va*

129 *mf* *p* *crescendo*

131 *molto cresc.* *fff*

133

f *mf* *p*

p

137

p espress.

140

4/4 3/4 4/4

143

4/4

145

poco rallentando

3/4 3/4

148

mp espress.

p

pp

Electronics: Resynthesis 2

Sost. Pedal

8^{vb}

154

p espress.

pp

poco cresc.

ppp

Ped. *Ped. *Ped.

(8)---|

159

*Ped. *Ped. *Ped. *Ped.

163

The musical score consists of three staves. The top staff is a single treble clef staff with a melodic line of eighth notes, each with a slur above it. The middle staff is a grand staff (treble and bass clefs) with a complex accompaniment of chords and moving lines. The bottom staff is a single bass clef staff with a melodic line of eighth notes, each with a slur below it. The score is divided into four measures by vertical bar lines. The first measure starts with a treble clef and a bass clef. The second measure has a treble clef and a bass clef. The third measure has a treble clef and a bass clef. The fourth measure has a treble clef and a bass clef. The score ends with a double bar line.

* Ped. *