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Finnish Music Information Centre

21 251

Maija Hynninen

winnowing

for piano and live electronics

2010

Suomalaisen musiikin tiedotuskeskus Fimic
Finnish Music Information Centre Fimic



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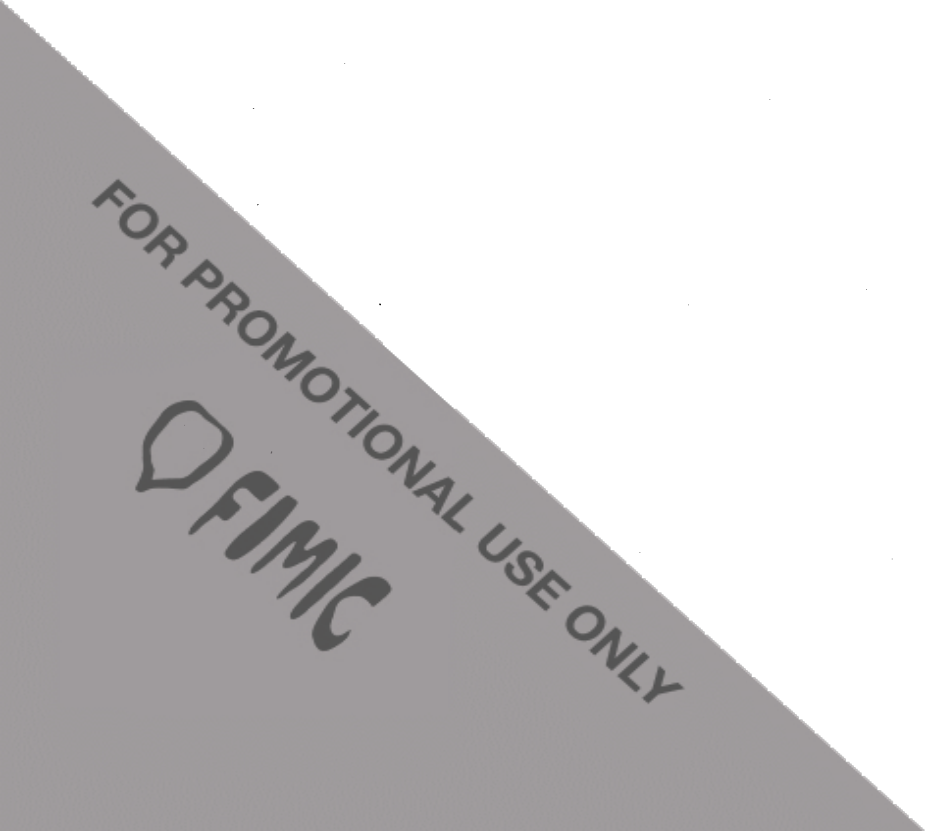
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rev. 11.11.2010



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Instructions

needed equipment for the pianist:

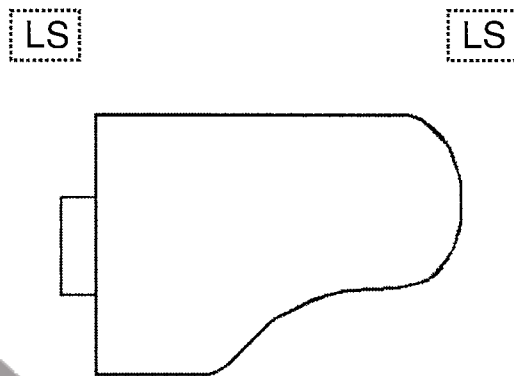
- a medium soft guitar plectrum or f.ex. a plastic card with similar flexibility
- a strong and non flexible piece of plastic like a triangle ruler

for the electronics:

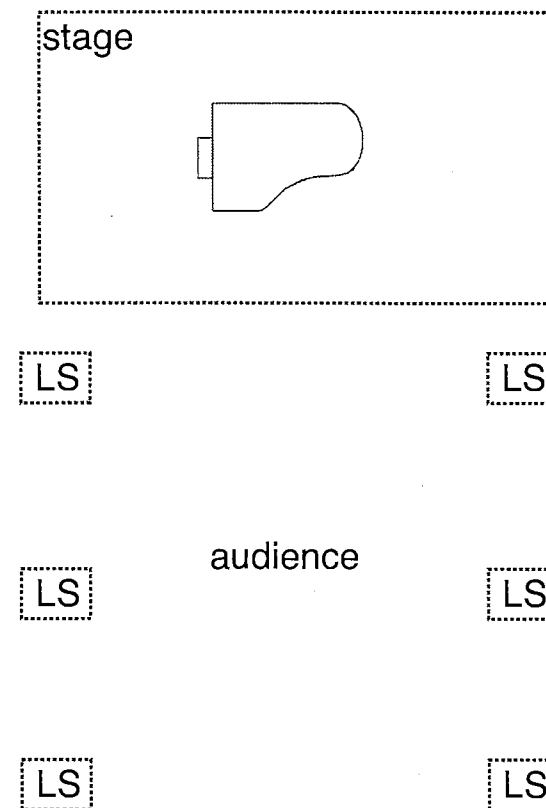
- a mac computer with approx. 3,00 GHz prosessor speed
 - Max/MSP 5
- soundcard and mixer for atleast nine outputs and four inputs
- eight loudspeakers (atleast)
- two mics atleast inside the piano, preferably four. The idea is to try to separate the frequency range as well as possible.
- get in touch with the composer through Finnish Music Information Centre (info@fimic.fi) to get the patch.

two loudspeaker (LS) spaces:

space I



space II



Explanation of signs

pedal

two pedals are in use: pedal 1 = the right pedal,
SOS = sostenuto pedal (middle)
the pedal 1 can be up, 1/2 depressed or depressed completely.

This example shows that the pedal should be first 1/2 depressed, then pressed gradually more until fully depressed and released again slowly.

Change pedal immediately after each glissando. The idea is to first get all the strings (within the marked range) ringing (by making the glissando) and then with a fast pedal change dampen the rest of the strings so that only the tones held down by the left hand are left ringing softly.

playing techniques inside the piano

Fingertips, tapping on the strings: to get delicate rattling sounds with pitch.

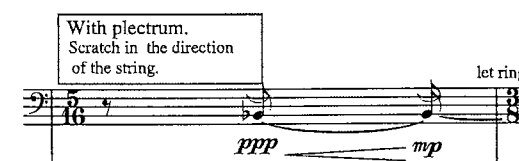
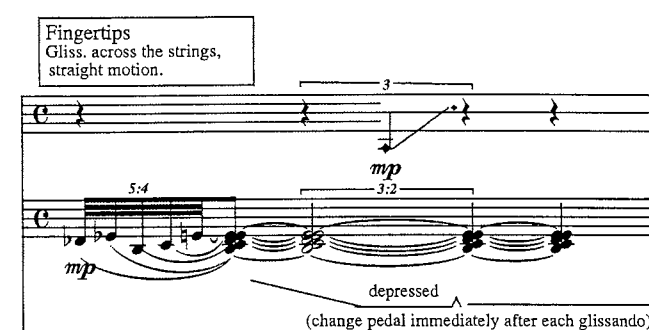
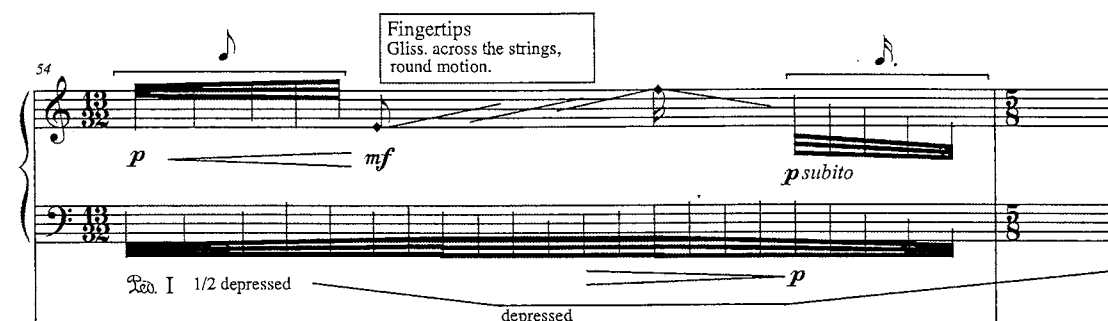
Fingertips, gliss. across the strings round motion: make multiple glissandos moving your hand in round motion moving in register as it shows in the music.

Fingertips, gliss. across the strings straight motion: only one glissando across the strings.

Fingertips, pluck strings: pluck the strings like playing harp.

With plectrum, scratch in the direction of the string: movement away from you in the direction of the string. More horizontal movement than pressure.

Harmonics, fundamental in left hand: use the string marked in the left hand staff (fundamental) and find the harmonic on that string with your right hand. Don't press right hand too much and lift it off the string quite soon after the attack in the left hand.



Commissioned by Jaana Kärkkäinen with the support of the Society of Finnish Composers Sibelius foundation. Dedicated to Jaana Kärkkäinen.

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Finnish Music Information Centre

winnowing

Maija Hynninen

2009-10

dur ≈ 11'30

♩ = 48-52

(depress key silently)

Piano

SOS.

pp (until b. 5)

mf

secco, very little pedal

Electronics 1

1

Electronics react to loudest attacks of the piano part and color those tones with different kinds of resonances. The electronics are only in the space 1. The idea is to create an illusion as if the piano was prepared with all sorts of objects placed on its strings.

3

Pno.

mp *pp* *f* *pp*

p *pp* *p* *ppp*

El. 1

2

3

5

Pno.

ppp *mp* *mp* *f* *mf*

El. 1

ff

6

Pno.

El. 1

winnowing

14:8

7:4

p

mf

f

5:4

3:2

5:4

6:4

2

10

8

Pno.

El. 1

pp

pp

p SOS.

14:8

7:4

pp

mf

pp

7:4

4

2:4

2:4

9

Pno.

El. 1

7:4

14:8

7:4

mp

pp

mp

7:4

7:4

7:4

7:4

5

2:4

11

Pno.

El. 1

pp

14:8

7:4

14:8

14:8

p

10:8

5:4

5:4

f

5:4

10:8

6

7

2:4

winnowing

3

13

Pno.

f *mp* *mf* *mp* *mf*

7:4 7:4 10:8 5:4 3:2

El. 1

15

Pno.

f *mf* *pp* *ff*

7:4 7:4 14:8 7:4

El. 1

getting slower liberamente towards the 7:4

16

Pno.

mp *f* *pp* *mf*

7:4 14:8 7:4

El. 1

getting slower liberamente towards the 7:4

17

Pno.

p *f*

5:4 14:8 7:4

El. 1

mp

winnowing

19

Pno.

mf

5:4

3:2

14:8

El. 1

pp

mf

4

20

Pno.

mp

14:8

pp

mf

left hand dynamics (mf)

mp

El. 1

21

Pno.

mf

pp

p

14:8

7:4

SOS.

mf

pp

El. 1

22

Pno.

14:8

14:8

10:8

molto legato

10:8

5:4

f

7:4

El. 1

V.S.

5

$\bullet = 60$

23

Pno.

mf *ppp* *ppp* *pp*

10:8 10:8

5:4 5:4 5:4 5:4 10:8

ppp *mp* *pp* *pp*

El. 1

[illegible][illegible]

pp right hand dynamics

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30

Pno.

f

pp

pp right hand dynamics

pp

mf

pp

El. 1

8

Electronics stop reacting to the piano sounds.

33 *mf* *winnowing* *mp* *p* *mp*

Pno.

38 *mf* *p* *pp* *mp*

Pno.

42 *mf* *pp* *mp* *pp* *mf* *p*

Pno.

El. 1

9 The piano attacks create soft resonances in the electronics.
Rattling noisy sounds

46 *p* *pp* *mp* *p* *pp* *mp*

Pno.

El. 1

10 Small delay.

11 delay increases poco a poco

The electronics start moving slowly into the space II.

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7

50

Pno.

El. 1

winnowing

Fingertips.
Tapping on the strings.

pp *mp* *ppp* *p* *mf* *p*

Red. I 1/2 depressed

54

Pno.

El. 1

Fingertips
Gliss. across the strings,
round motion.

p *mf* *p subito*

Red. I 1/2 depressed

depressed

With plectrum.
Scratch in the direction
of the string.

Movement increases rapidly with the
crescendo. Don't press the string, but use
more horizontal movement.

let ring

ppp *mp* *p* *mf* *p*

Red. I 1/2 depressed

more delay that moves in the space II.

58

Pno.

El. 1

Fingertips
Gliss. across the strings,
straight motion.

ppp *mf* *pp* *mf* *p* *ppp*

Red. I depressed

1/2 depressed

depressed

3

5:4

3:2

mp *mp* *depressed*

(change pedal immediately after each glissando)

62

Pno.

El. 1

depress keys silently

f.t.

mf

SOS.

Harmonics
Fundamental is in the left hand.

(sounding)

press the string very lightly, release
string after the attack

hold the key down as long as marked

mp

15

Electronics are in the space II.
Gentle moving surfaces of sound

winnowing

65

Pno.

El. 1

Pno. I

ppp

mf

as high as wanted,
no specific pitch

winnowing

8

68

Pno.

hold the key down as long as marked

El. 1

M freeze ja glissando toiseen jo bufferissa olevaan

Fft freeze bufferiin avautuminen

The musical score for 'The Wind' by Maurice Strakosky is presented in a three-staff format. The top staff is for the Piano (Pno.), the middle for the Flute (Fl.), and the bottom for the Bassoon (Bsn.). The score is divided into measures, with measure numbers 17, 18, and 19 indicated in boxes. Performance instructions are provided in text boxes and annotations throughout the score.

Piano (Pno.) Part:

- Measure 17:** Starts with a piano introduction marked *ppp*. The instruction 'Press silently and hold down. No pedal.' is given for the first half of the measure. The tempo is marked *mf* (mezzo-forte) with a 5:3 ratio. The instruction 'Fingertips. Pluck strings.' is given for the second half of the measure.
- Measure 18:** The instruction 'Fingertips. Gliss. across the strings, straight motion.' is given. The tempo is marked *mp* (mezzo-piano).
- Measure 19:** The instruction 'Fingertips. Pluck strings.' is given. The tempo is marked *mp* (mezzo-piano).

Flute (Fl.) Part:

- Measure 17:** The instruction 'Fingertips. Pluck strings.' is given. The tempo is marked *mp* (mezzo-piano).
- Measure 18:** The instruction 'Fingertips. Pluck strings.' is given. The tempo is marked *mp* (mezzo-piano).
- Measure 19:** The instruction 'Fingertips. Pluck strings.' is given. The tempo is marked *mp* (mezzo-piano).

Bassoon (Bsn.) Part:

- Measure 17:** The instruction 'Fingertips. Pluck strings.' is given. The tempo is marked *mp* (mezzo-piano).
- Measure 18:** The instruction 'Fingertips. Pluck strings.' is given. The tempo is marked *mp* (mezzo-piano).
- Measure 19:** The instruction 'Fingertips. Pluck strings.' is given. The tempo is marked *mp* (mezzo-piano).

Other Annotations:

- Measure 17:** 'SOS.' is written below the piano part.
- Measure 18:** 'bell-like sounds' is written above the flute part.
- Measure 19:** 'bell-like sounds' is written above the flute part.

winnowing

9
74

Pno.

mf *p* *mp*

3:2

3:2

3:2

SOS.

21

El. 1

20

chord changes: these tones start to sound

chord changes: these tones start to sound

chord changes: these tones start to sound

77

Pno.

depress keys silently

SOS

Fingertips
Gliss. across the strings,
straight motion.

use both hands

mp
Fed. I

22

Bell like sounds that turn off these
pitches. The sounds have decay.

Bell like sounds that turn off these
pitches. The sounds have decay.

glissando

ppp

El. 1

79

Pno.

p *mp*

5:4

depress silently

f.t.

3:2

24

Taken from the piano sound with a FFT-bandpass filter

glissando

25

El. 2

23

thinning out chord

decay

82

Pno.

winnowing
con ped.

10

depress silently

3:2

pp

3:2

3:2

3:2

glissando

Thinning out chord. No glissando.

PP

Loudspeaker under the piano.
Harmonies in soft dynamics
to make the piano strings resonate.

Sound is played in the space I only.

85

Pno.

mp

3:2

pp

5:4

10:8

14:8

14:8

14:8

p

mp

pp

10:8

14:8

26

Ks. 6min_map

mf

El. 1

El. 2

87

Pno.

use both hands

f.t.

3:2

mp

3:2

Ped. I

mp

depress silently

mf

5:4

Ped. I

27

(his harmony sounds)

mp

28

(a virtual SOS. pedal in the electronics)

pp

29

Glissando 6min20"

glissando

El. 1

El. 2

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92 *con ped.* *mp* *pp* *glissando* *glissando* *glissando*

30

8va

3:2 5:4 3:2 3:2 5:4 7:4 7:4

Pno.

El. 1

94 $\text{♩} = 72$ *mp* *ppp* *ppp* *glissando*

8va

5:4 10:8 10:8 10:8 10:8 10:8 10:8

Pno.

El. 1

96 *mp* *p* *SOS.*

10:8 10:8 10:8 10:8 10:8 10:8 10:8 10:8 5:4

Pno.

El. 1

winnowing

12

The musical score is for the piece "The Wind" by Maurice Strakosky, from the album "The Wind" (1977). It is a 7-minute piece in 3/4 time, featuring a piano (Pno.) and an electric guitar (El. 1).

The score is divided into three systems. The first system (measures 1-31) features the piano playing a complex, rhythmic pattern with dynamic markings of *ff*, *mf*, *f*, and *ppp*. The electric guitar plays a melodic line with a *ff* dynamic marking. The second system (measures 32-33) features the piano playing a melodic line with a *ff* dynamic marking. The electric guitar plays a melodic line with a *ff* dynamic marking. The third system (measures 34-35) features the piano playing a melodic line with a *ff* dynamic marking. The electric guitar plays a melodic line with a *ff* dynamic marking.

The score includes a variety of musical notation, including notes, rests, and dynamic markings. The piano part is written in 3/4 time, and the electric guitar part is written in 3/4 time. The score is in G major, with a key signature of one sharp (F#).

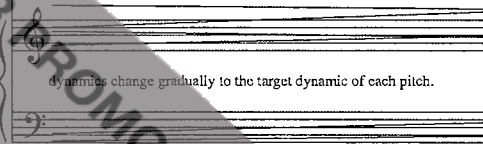
The score is a full score, showing the parts for both the piano and the electric guitar. The piano part is written in 3/4 time, and the electric guitar part is written in 3/4 time. The score is in G major, with a key signature of one sharp (F#).

[illegible]

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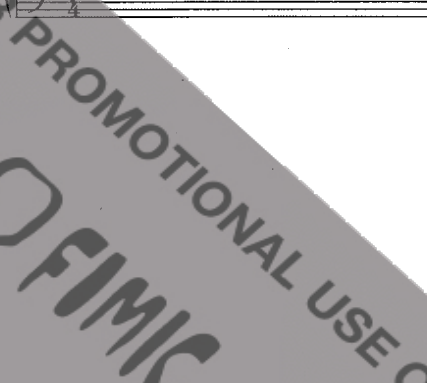
El. 1

dynamics change gradually to the target dynamic of each pitch.



The image shows a musical score for two staves. The top staff is a treble clef and the bottom staff is a bass clef. Both staves contain a single, long, horizontal line, likely representing a sustained note or a specific pitch. The text 'dynamics change gradually to the target dynamic of each pitch.' is written below the staves.

El. 2



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14

107

Pno.

p *mp* *mf*

5:4 10:8 10:8 10:8

El. 2

mp

108

Pno.

pp *mf* *pp*

5:4 10:8 5:4 10:8 5:4 10:8

109

Pno.

f *mp* *p* *pp* *mf*

5:4 5:4 10:8 5:4 10:8

El. 1

33

Rapid spatial movement in the space II. Wings flapping.

34

glissando

V.S.

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TAPE SOLO

Pno.

Tape, multichannel

Rapid spatial movement in the space II. Wings flapping.

Rapid spatial movement in the space II. Wings flapping.

on the first beat of each bar (b. 115–123)

118

Pno.

El. 1

35 init spat

LIVE generalized cross filter synthesis.
The rhythms from the tape and resonating
harmonies from inside the piano.

mp

124

Pno. con ped. *mp*

El. 1 36 LIVE different delay effects: analyzing the overtones of the sound, coloring them with different effects and playing them back with delay.

Rapid spatial movement in the space II. Wings flapping.

37

38

127

Pno. *pp* *mp* *pp* *mf*

With plectrum. Scratch in the direction of the string.

Movement increases rapidly with the crescendo. Don't press the string, but use more horizontal movement.

Press silently and hold down. No pedal.

El. 1 39 40 LIVE different FFT effects: bin delay, phase modulation, convolution. The sounds move rapidly in space II.

41

131

Pno. *p* *f* *p* *f* *mp* *f* *p* *mf* *p*

Slower movement.

Movement is getting more heavy than fast. use a strong piece of plastic

Press to get an ugly scratching sound.

El. 1 42

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