

ZUCKER
FOR MOTORIZED ENSEMBLE

LISA STREICH

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INSTRUMENTATION / MUSICIANS

- 1 Flute / Piccolo
- 1 Clarinet in Bb / Bass Clarinet in Bb
- 1 Percussion:

- 1 Egg Slicer (provided by composer)

- 1 Wash Board (played with wooden stick)

- Vibraphone (played with hard gummi mallet)

- Bass Timpani (D - F) (played with drum stick)
- 1 motorized Piano (with player)
- 1 motorized Guitar (with player)
- 1 motorized Violin (with player)
- 1 motorized Violoncello (with player)
- 1 motor player

REMARKS

↑

+ 1/8

‡

+ 1/4

♯

+ 1/2

♯♯

+ 3/4

♭

- 3/4

♭

- 1/2

♭

- 1/4

↓

- 1/8

PICCOLO / FLUTE

= shut and open the keys on the flute

Flute

= indicates an instrument change

CLARINET IN Bb / BASS CLARINET IN Bb

B. Cl. in Bb

= indicates an instrument change

PERCUSSION

= damped dead note (Vibr.)

= pluck random string on Egg Slicer

= scratch once along the Wash Board in given time

= hit with drum stick flat on the border of the timpani, half of the stick is on the skin and half of the stick is in the air

Timp.

= indicates an instrument change

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MOTORIZED PIANO

keys



= keys to played normally

silent keys



= keys to be pressed silently (only the motors make the strings sound)



= chords to be pressed silently

! = prepare next chord in time



= damped notes (damped either by hand or with little heavy sand bags)



= motors play on the highest strings (the pianist is not involved though)

1. 2. 3. 4.



= shows which motors are involved in the sound. Depending on the construction of the piano, sometimes it's neccesary to transpose single notes an octave down or up so that the paper strip of the motor can touch the given note.

MOTORIZED GUITAR



= open strings played by the motor



= silently pressed notes (sometimes with both right and left hand), only the motor makes the strings sound



= damp given strings either near the tailpiece or near the tuning pegs



= play with wire of a needle threader as softly as the motor if possible

♩ = Bartok - pizz.

s.t. = sul tasto

m.s.t. = molto sul tasto

MOTORIZED VIOLIN & MOTORIZED VIOLONCELLO

I
II
III
IV

= roman numerals above a note indicate the string on which to play



= open strings played by the motor (only notated if nothing else is happening in the bar)



= silently pressed notes (sometimes with both left and right hand), only the motors make the strings sound

(MOTORIZED VIOLIN & MOTORIZED VIOLONCELLO)

 = damp given strings

c.l.b.
 = col legno battuto

c.l. = col legno tratto

c.l.cr. = col legno crini

ord.
 = play ordinario

s.t. = sul tasto

m.s.t. = molto sul tasto

 = left hand pizzicato

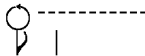
 = play behind the bridge on given string

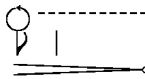
 = tap the string on given note

 = Bartok - pizz.

MOTORS

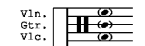
 = motor starts and lasts as long as the written note

 = motor starts and plays until the end of the dotted line

 = motor starts and plays until the end of the dotted line while getting slower and slower

MOTOR PARTICELL

The motors are triggered with seven faders, 4 of them go to the piano, 1 to the violoncello, 1 to the guitar and 1 to the violin.

 = particell that indicates when to play on which fader/instrument.

 = Pno. 4 stands for the motor which strikes the highest strings in the piano, Pno. 3 stands for the high middle, Pno. 2 stands for the low middle and Pno. 1 for the lowest strings in the piano.

the dynamics indicate in this case the velocity of the motors:

ppp = very very slow (1 revolution per 5 - 10 sec.)

pp = very slow (1 revolution per 3 - 5 sec.)

p = slow (1 revolution per 2 - 3 sec.)

mf = middle velocity (1 revolution per 1 sec.)

f = fast (1 revolution per 1/2 sec.)

TECHNICAL RIDER

MOTORS

- 4 motors and construction for the piano (provided by composer)
- 1 motor and construction for the violoncello (provided by composer)
- 1 motor and construction for the guitar (provided by composer)
- 1 motor and construction for the violin (provided by composer)

- 7 cables from the motors to the motor box (provided by composer)

- 1 motor box (provided by composer)

TO COMPUTER

- 7 1/4" TRS cables (5m)

- 1 audio interface with 7 analog outputs

- 1 cable from audio interface to computer

- 1 Apple Macintosh computer (system requirements: 2.53 GHz, 4 GB RAM, Mac OS X from Version 10.6.8)

- 1 Max/MSP patch "ZUCKER" (provided by composer)

AMPLIFICATION

- 5 condenser microphones
piano, violoncello, violin and guitar should be slightly amplified

- 1 mixing console (5 in, 5 out)

LITTLE LOUDSPEAKERS

(comparable with GENELEC 6010A or GENELEC 1029A)

- 1 little loudspeaker inside the piano
- 1 little loudspeaker under the chair of the cellist
- 1 little loudspeaker under the chair of the guitarist
- 1 little loudspeaker under the chair of the violinist

TECHNICAL RIDER II (simple version where motors work less precise)

MOTORS

- 4 motors and construction for the piano (provided by composer)
- 1 motor and construction for the violoncello (provided by composer)
- 1 motor and construction for the guitar (provided by composer)
- 1 motor and construction for the violin (provided by composer)

- 7 cables from the motors to the motor box (provided by composer)

- 1 motor box (provided by composer)

AMPLIFICATION

- 5 condenser microphones
piano, violoncello, violin and guitar should be slightly amplified

- 1 mixing console (5 in, 5 out)

LITTLE LOUDSPEAKERS

(comparable with GENELEC 6010A or GENELEC 1029A)

- 1 little loudspeaker inside the piano
- 1 little loudspeaker under the chair of the cellist
- 1 little loudspeaker under the chair of the guitarist
- 1 little loudspeaker under the chair of the violinist

commissioned work by Bludenzner Tage zeitgemäßer Musik, Austria / Swedish Arts Council
premiere: 19th of November 2016 in Bludenz, Austria by Curious Chamberplayers, conductor: Rei Munakata

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ZUCKER
FOR MOTORIZED ENSEMBLE

Score in C

$\text{♩} = 48$

LISA STREICH

24

18

38

44

18

44

18

68

34

78

24

18

38

Flute/Piccolo

Bass Clarinet in B♭/
Clarinet in B♭

Egg Slicer /
Wash Board

Vibraphone /
Timpani

keys

Silent keys

Motors

Guitar

Motor

Violin

Motor

Violoncello

Motor

Motor Player

Vln.
Gtr.
Vib.

Pno. 4

Pno. 3

Pno. 2

Pno. 1

prepare the given range
with little sandbags before starting the piece

*Ped. always refers to the
sostenuto pedal in the silent keys

prepare given range
with little sandbags

motor is in front
of the bridge

c.l.b.
p

motor is behind
the bridge

ppp

8va

9:8

Ped *

1. 2.

9:8

c.l.b.

m.s.t.

c.l.b.

8:6

9:8

ppp

ppp

ppp

Vibr.

pp

p

pp

p

ppp

ppp

ppp

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9:8
♩ = 108

3
4
7
8
2
4
3
8
4
4
1
4
2
4
3
4
1
8
6
8
3
4

Fl./Picc.
B. Cl. in Bb/
Cl. in Bb
E.S. / W.B.
Vibr. / Timp.

Pno.
keys
s. keys

Mtrs.
Gtr.
Mtr.

Vln.
Mtr.

Vc.

Mtr. Pl.

feel free to conduct a 9/8th bar

hit like chopping wood with an axe

prepare given range with little sandbags

c.l.b.
ord.

c.l.b.
8va
ord.

c.l.b.
mf

I
ppp

III
ppp

Pno. 4
Pno. 3
Pno. 2
Pno. 1

♩. = 64

6

$\text{♩} = 73$

8

74

$\text{♩} = 48$

$\left[\begin{array}{c} 9:8 \\ \text{♩} = 108 \end{array} \right]$

feel free to conduct a 9/8th bar in given tempo

3/4 2/4 1/8 6/8 4/4 1/8 6/8

Fl./Picc. *p* *mf* *p* *fff*

B. Cl. in Bb/
Cl. in Bb *p* *mp* *mf* *p* *fff*

E.S. / W.B. *p* *mp*

Vibr. / Timp. *p* *mp* *pp* 8:6 8va- 9:8

keys *p* *mp*

Pno. s. keys

Mtrs. 1. 2. 1. 2. 3. 2. 3. 2. 3. 1. 1. 2.

Gtr.

Mtr.

Vln. c.l.b. *mp* *pp* 8va- 8va- ord. c.l.b. 8va- 8va-

Mtr.

Vc. *p* *mp* *p* *ppp* *f* *ppp* *ppp*

Mtr.

Mtr. Pl. *mf* *ppp* *mf* *mf*

Picc. Cl. in Bb

remove preparation in given range

ord. I II I pizz

9:8 9:8

10

♩ = 37

96

3/4 8/4 6/4 5/4 8/4 5/4 2/4

Fl./Picc.

B. Cl. in B♭/
Cl. in B♭

E.S. / W.B.

Vibr. / Timp.

Pno.

keys

s. keys

Mtrs.

Gtr.

Mtr.

Vln.

Mtr.

Vc.

Mtr.

Mtr. Pl.

Vln. det.
Vla.

Pno. 4
Pno. 3
Pno. 2
Pno. 1

press/damp with right
and left hand the
given notes/strings,
only the motor plays

ppp

ppp

118

3 1 6 1 6 3 1 6 3

8 4 4 8 8 4 8 8 4

Fl./Picc. Picc.

B. Cl. in Bb/
Cl. in Bb Cl. in Bb

E.S. / W.B.

Vibr. / Timp.

keys *try to play as softly as the motors* *8va* *fff* *ppp* *fff* *p*

Pno. *8va* *fff* *ppp* *fff* *p*

s. keys *8va* *fff* *ppp* *fff* *p*

Mtrs. *1. 2. 4.* *1. 2.* *2. 3.*

Gtr.

Mtr. *play as softly as the motor if possible* *c.l.* *6:4* *6:4* *6:4* *6:4* *6:4* *6:4* *ppp* *c.l.b.* *II* *p*

Vln. *c.l.* *6:4* *6:4* *6:4* *6:4* *6:4* *6:4* *ppp* *c.l.b.* *II* *p*

Mtr. *play as softly as the motor if possible* *c.l.* *6:4* *6:4* *6:4* *6:4* *6:4* *6:4* *ppp* *c.l.b.* *ord.* *8:6* *p*

Vc. *c.l.* *6:4* *6:4* *6:4* *6:4* *6:4* *6:4* *ppp* *c.l.b.* *ord.* *8:6* *p*

Mtr. *ppp* *ppp* *ppp* *ppp* *ppp* *ppp* *ppp* *ppp* *ppp* *ppp*

Mtr. Pl. *ppp* *ppp* *ppp* *ppp* *ppp* *ppp* *ppp* *ppp* *ppp* *ppp*

Vln. 4
Vln. 3
Vln. 2
Vln. 1

Pno. 4
Pno. 3
Pno. 2
Pno. 1

♩ = 120

133 $\frac{1}{8}$ $\frac{1}{4}$ $\frac{6}{4}$ $\frac{4}{4}$ $\frac{1}{4}$ $\frac{6}{4}$

Fl./Picc. f fff f

B. Cl. in B♭/
Cl. in B♭ 8^{va} f fff f

(scratch along wash board
with wooden stick)
W.B. fff

E.S. / W.B. f pp f pp f f pp f f pp f pp

h.l.c.w.w.a.a. Timp. (hit with drum stick flat
on border of the timpani, half of the stick is on the skin and half of the stick is in the air)

Vibr. / Timp. fff f f

keys damp with hand

Pno. ff damp with hand 8^{va} ff

s. keys ff

Mtrs. 1. 2. 1. 2.

Gtr. ff ff

Mtr.

Vln. p $c.l.$ 6 6 6 3

Mtr.

Vc. hammering! $c.l.b.$ ff hammering! $c.l.b.$ ff

Mtr.

Mtr. Pl. f ppp

Vin. 4
Gtr. 3
Vln. 2
Flu. 1

GRAZIOSO E GIOCOSO

[illegible]

$\text{♩} = 120$
accel. $\text{♩} = 160$

157 $\frac{6}{4}$ Picc.

Fl./Picc. *f*

B. Cl. in Bb/
Cl. in Bb *f*

E.S. / W.B. *p* *f* *ppp*

Vibr. / Timp. *ff*

keys *p*

Pno. s. keys

Mtrs. 1. 2. *play with wire of a needle threader as softly as the motor if possible*

Gtr. *p* *ff*

Mtr.

Vln. c.l. *mp*

Mtr.

Vc. c.l. *mp* *hammering!* *ff*

Mtr.

Mtr. Pl. *p*

Picc. 4
Picc. 3
Picc. 2
Picc. 1

remove preparation in given range

$\text{♩} = 37$ $\text{♩} = 160$ $\text{♩} = 37$ $\text{♩} = 57$

161 $\frac{4}{4}$ $\frac{2}{4}$ $\frac{3}{4}$ Picc. $\frac{1}{4}$ $\frac{6}{8}$

Fl./Picc. ff 8va

B. Cl. in Bb/
Cl. in Bb

E.S. / W.B. W.B. ff E.S. on Timp.

Vibr. / Timp. Timp. mf 3:2 3:2 3:2 3:2 3:2 3:2 3:2 3:2 3:2

keys ppp

Pno. ! ! ! !

s. keys Ped. 1. 2. 3. Ped. 1. 2. 3. Ped. 1. 2. 3. Ped. 1. 2. 3.

Mtrs.

Gtr. ff tune back given strings

Mtr.

Vln. c.l.b. 9:8 pp ord., s.t. pp ppp I IV I III

Mtr. hammering! c.l.b. (tap)

Vc. ff p

Mtr.

Mtr. Pl. ppp p ppp

Vln. 4
Vln. 3
Vln. 2
Vln. 1
Pno. 4
Pno. 3
Pno. 2
Pno. 1

172

Fl./Picc.

B. Cl. in Bb/
Cl. in Bb

E.S. / W.B.

Vibr. / Timp.

Pno.

keys

s. keys

Mtrs.

Gtr.

Mtr.

Vln.

Mtr.

Vc.

Mtr.

Mtr. Pl.

Vln.
Vtr.
Vis.

Pno. 4
Pno. 3
Pno. 2
Pno. 1

$\text{♩} = 140$

$\frac{3}{4}$

$\frac{1}{8}$

$\frac{6}{4}$

$\frac{3}{4}$

ff

ff

W.B.

pp

mp

pp

mp

pp

mp

Timp.

mp

1. 2. 3.

1. 2. 3.

1. 2.

tune given
strings

mp

c.l.b. m.s.t.

p

pp

p

p

mp

f

This musical score is for 'The Bridge' by John Cage, a piece for prepared piano and various instruments. The score is written for a large ensemble, including Flute/Piccolo, Bass Clarinet in B-flat, Euphonium/Wall Horn, Vibraphone/Timpani, Piano (with prepared keys), Mtr. (Metronome), Guitar, Mtr. (Metronome), Violin, Mtr. (Metronome), Viola, and Mtr. Pl. (Metronome). The score is divided into measures, with some measures containing specific performance instructions such as 'Vibr.', 'pp', 'ppp', 'f', 'ord.', 'c.l.b.', 'm.s.t.', 'c.l.b.', 'damp with hand', 'put motor behind the bridge', and 'Vln. det. Vln.'. The score is written in a complex, non-linear fashion, with many measures containing rests and some measures containing specific musical notation. The score is written in a complex, non-linear fashion, with many measures containing rests and some measures containing specific musical notation. The score is written in a complex, non-linear fashion, with many measures containing rests and some measures containing specific musical notation.

192

5/4 4/4 5/4 4/4 5/4

Fl./Picc. *mf*

B. Cl. in Bb/
Cl. in Bb *mf*

E.S. / W.B.

Vibr. / Timp. *fff*

keys

Pno. *fff*

s. keys

Mtrs. 1. 2. 3. 4.

Gtr. *fff*

Mtr. *fff*

Vln. *fff*

Mtr. *fff*

Vc. *fff*

Mtr. *fff*

Mtr. Pl. *f*

Vln. *f*

Pno. 4 *f*

Pno. 3 *f*

Pno. 2 *f*

Pno. 1 *f*

Fl. / Picc.

B. Cl. in Bb / Cl. in Bb

E.S. / W.B.

Vibr. / Timp.

keys

Pno.

s. keys

Mtrs.

Gtr.

Mtr.

Vln.

Mtr.

Vc.

Mtr.

Mtr. Pl.

272

5/4

4/4

3/4

4/4

1/8

8/4

4/4

8va

8vb

Ped.

Vibr.

h.l.c.w.a.a.

tune back

m.s.t. 6:4

c.l.b. IV

f

ppp

The image displays a complex musical score for a symphony orchestra, spanning 12 measures. The score is written for various instruments, including woodwinds, percussion, strings, and voice. The notation includes notes, rests, dynamics, and performance instructions.

Measures 1-8: The score begins with a key signature of one flat (Bb) and a time signature of 4/4. The woodwinds (Fl./Picc., B. Cl. in Bb/Cl. in Bb) and strings (Pno., s. keys, Mtrs., Gtr., Mtr.) play a series of chords and arpeggios. The percussion (E.S. / W.B., Vibr. / Timp.) plays a rhythmic pattern. The voice (Vc.) enters in measure 2 with a melodic line. The strings (Vla., Vcl., Vc., Mtr. Pl.) play a continuous arpeggiated figure.

Measures 9-12: The score continues with the same instrumentation. The woodwinds and strings play a series of chords and arpeggios. The percussion (E.S. / W.B., Vibr. / Timp.) plays a rhythmic pattern. The voice (Vc.) continues its melodic line. The strings (Vla., Vcl., Vc., Mtr. Pl.) play a continuous arpeggiated figure.

Performance Instructions:

- E.S. on Timp.** (E.S. on Timp.)
- remove preparation in given range**
- ppp** (pianissimo)
- p** (piano)
- pp** (pianissimo)
- ord.** (order)
- m.s.t.** (musical score)
- I** (first ending)
- IV** (fourth ending)

232

1 4
8 4

♩ = 37

Fl./Picc.

B. Cl. in Bb/
Cl. in Bb

E.S. / W.B.

Vibr. / Timp.

Pno.

keys

s. keys

Mtrs.

Gtr.

Mtr.

Vln.

Mtr.

Vc.

Mtr.

Mtr. Pl.

Vln.
Vla.
Vcl.

Pno. 4
Pno. 3
Pno. 2
Pno. 1

Ped.

2. 3. 4.

2. 3.