I, Sangbong Nam, hereby submit this original work as part of the requirements for the degree of Doctor of Musical Arts in Composition.

It is entitled:

Unbearable Heaviness of Being

Student's name: Sangbong Nam

This work and its defense approved by:

Committee chair: Mara Helmuth, D.M.A.

Committee member: Mike Fiday, Ph.D.

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Unbearable Heaviness of Being

A dissertation submitted to the

Graduate School

of the University of Cincinnati

in partial fulfillment of the

requirements for the degree of

Doctor of Musical Arts

in the Division of Composition, Musicology, and Theory

of the College-Conservatory of Music

By

Sangbong Nam

Master of Music, Seoul National University, 2008

Bachelor of Music, Seoul National University, 2005

Committee Chair: Dr. Mara Helmuth
Abstract

Unbearable Heaviness of Being for flute, clarinet, violin, cello, percussion, piano, and live electronics is a collection of impressions from nightmares I had when I was young. The work is divided into 6 movements. Each movement takes a specific look at the uneasy state of mind. Processing and mixing pre-recorded materials was done in the computer music studio at the University of Cincinnati. Various techniques using live sound processing were explored such as Pitch Shifting, FIR (simple finite impulse response filter in RTcmix), Octave Harmonizer, Delay/Feedback and MSHAKERS (‘shaker’ PhISEM and PhOLIES physical model in RTcmix).
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UNBEARABLE HEAVINESS OF BEING

for Flute, Clarinet, Violin, Cello, Percussion, Piano and Live Electronics

Sangbong Nam (2013)
INSTRUMENTATION

Flute (Alto Flute)

B-flat Clarinet

Violin

Cello

Percussion:
Crotale
Bass Drum
3 Medium Wood Blocks

Piano

Electronics
SETUP
Electronics - technical requirements

- Macintosh or PC computer equipped with an audio interface compatible with Max/MSP
- UC-33e by M-Audio or comparable Midi controller
- To obtain the applicable version of the patch required to perform the piece, please contact composer through his website www.sangbongnam.com
Electronics - effects in Max patch

* DelFB: Delay and Feedback
  - DelFB1: Delay for 1000ms and Feedback
  - DelFB2: Delay for 1500ms and Feedback
  - DelFB3: Delay for 2000ms and Feedback
  - DelFB4: Delay for 2500ms and Feedback

* Harmv: Harmonizer
  - Harmv1: Pitch shift for -1228 cent
  - Harmv2: Pitch shift for -1190 cent
  - Harmv3: Pitch shift between -300 cent and 300 cent
  - Harmv4: Pitch shift between -800 cent and 800 cent

* Rev: Reverb

* 4Spat: Spatialization for 4 channel
  - 4SpatC: Circle spatialization
  - 4SpatR: Random spatialization

Operator can change the parameters of effects using a midi controller to modify sound.
* Perc: percussion effect using MSHAKER('shaker' PhISEM and PhOLIES physical model in RTcmix)
UNBEARABLE HEAVINESS OF BEING
for Flute, Clarinet, Violin, Cello, Percussion, Piano and Live Electronics

I. Oppression

Sangbong Nam (2013)

\( \text{q} = 60 \)
II. Defilement

Fl.  Alto Flute

Cl.  Fl.

Vn.  Fl.

Vc.  ord.

Perc.  Bass Drum

Pf.  f

E.  Harmv1, 2  DelFB2

\[ \sum \]
III. Flutter

Tempo Rubato $\d = 60$

Alto Flute  Key Clicks & Air Blow

- * sweeping across the strings with the flat of the hand
VI. Lethargy
$\text{\textit{\Large{ diversos}}}$

$\text{\textit{\Large{ diversos}}}$