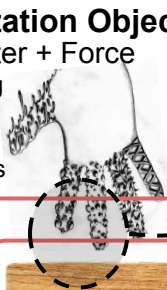


Excitation Object

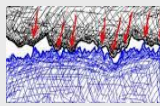
Matter + Force

- Gesture Conditioning
- Frequency Profile
- Spatial Form
- Material Affordances



Haptic-Acoustic Gesture

Material Computation / Gesture Conditioning



- Connections, Access Points
- Spatial Encoding
- Mechanical Interactions
- Tactile Texture

Sounding Object

- Haptic-Acoustic Transcoding
- Gesture Conditioning
- Material Affordances
- Frequency Profile, Spatial Form



Structural Vibration

Piezoelectric Transducer
-Audio Encoding

Condensor Mic
(reference signal)

Convolution
Signal Conditioning

IR Estimation

Analysis & Segmentation
temporal/spectral features

Conditioning
-weighting
-normalizing
-gating
-mapping
...

Target
(Descriptors)

Corpus

Database of Descriptor
Analysed Sound Units

Constraints

Unit Selection

Synthesis

Sound lookup, Transformation, Concatenation

Effects (Content Based Processing)