

Binkan Mashin - The Sensitive Machine

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Meaning:

Binkan Mashin is a Japanese word, which translate to "Sensitive Machine". In this project, i worked on an application in which it's algorithm is to play the output sound depending on the nature of the input-sound it receives (mainly amplitude and the rate of receival). Hence the name Binkan Mashin "The Sensitive Machine"

Overview:

The input is received and processed accordingly to create melodies. The algorithm of the application makes the output-sound rendered by the machine become the next input-sound for the machine and hence leads to a continuous loop where the output-sound later becomes the machine's sound-input. The input can be in form of voice or/and Midi keyboard. The techniques used in processing the sound-input includes Filtering, passing signals through an LFO and also performing granular synthesis on a small part of the input-sound (2 second portion of the sound input).

Improvements:

Adding a feature of detecting low and high pitched sound-input and releasing the output-sound according to the detected pitches to make the sound vary in interesting ways This can probably be achieved through employing the FFT concept in the application.

Platforms Used:

- Max MSP
- SuperCollider
- Modular Synthesizers