iSynth

The Quest for a "Better" Music Synthesizer

Part IV:

Scope Redefinition, Choices & Current Progress



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Redefinition of Scope

- Construct a Virtual Musical Keyboard :
 - Keyboard layout is printed on a sheet of paper
 - Grab user inputs via a Camera to detect which key(s) were pressed
 - Determine the velocity of a keypress by using an EMG sensor
 - Synchronize the data from the camera as well as the EMG sensor & play the note associated with keypress at the actuated velocity.

Choice of EMG sensor

• 3 options :



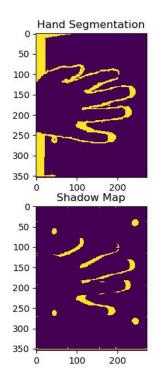
1. Myoware muscle sensor AT-04-001

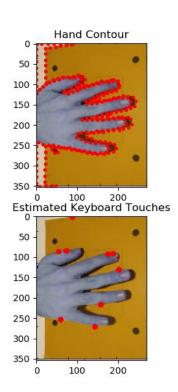


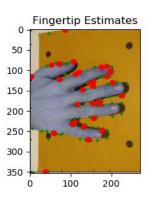
2. EMG Muscle Signal Sensor Kit from Robolndia

3. Build one by ourselves!

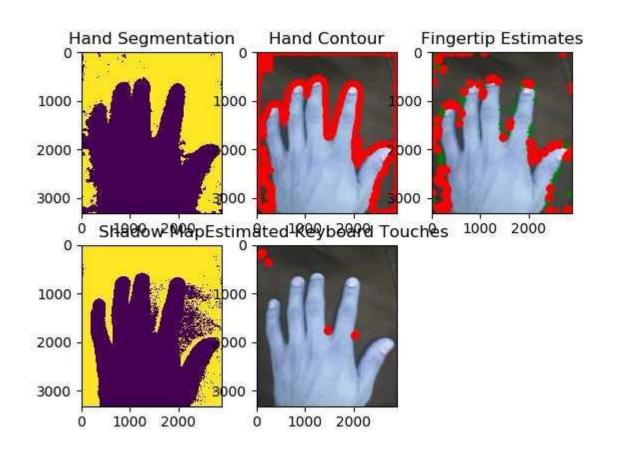
Current Status







Current Status



Thanks!

Any questions?

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