Research Vocabulary (Glossary)

## Refinement

What percentage of the total possible input data points are being used (Out of 27)

## Velocity

A transformed feature. The first discrete derivative of the position data. Calculated using a data point 5 timestamps before the point under observation.

## Task Detection

A transformed feature. Algorithmically determined task markers gained by looking at where velocity changes signs over the course of at least 5 points

## Tailored Refinement

Application of an algorithm that dynamically chooses which data points to consider. Changes based on individual

## Uniform Refinement

Standard selection of data points used for all individuals

## Transformed Features

A feature created by applying mathematical operations to an existing data set.

## Video Analysis

Input data includes every frame in a predetermined action

## Frame Analysis

Input data only includes information from a single frame taken from a predetermined action

## Origin

Center of the Kinect’s coordinate system. Standardized to the subject’s chest

## Model Efficiency Coefficient (MEC)

.. Result time/Time to Train \*ac

## Architecture

The number of hidden layers and nodes per hidden layer used in the Neural Net.