

GetKinematics, PlotKinematics, GetKinetics, and PlotKinetics Matlab Function Instructions

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Description

The GetKinematics/Kinetics and PlotKinematics/Kinetics functions will import data from a single or multiple C3D files, process the files in a manner that is selected in the Selector_File.xlsx spreadsheet and output the data in a structure or a series of plots.

Instructions

1. Ensure Get..., Plot..., and supporting functions are added to the matlab path
 - a. Supporting functions include the following files/folders
 - i. SelectOptions.m
 - ii. Selector_File.xlsx
 - iii. Function Library
 - iv. Controls
 - b. If you need access to these folders see: S:\cgma_TechOps\Software\Matlab Programs\Deployed\Kinematics and Kinetics AutoProcess and Plot
2. Copy the desired C3D files into the matlab path
3. Open the selector file and select your options
 - a. Don't forget to save the file before you run the code!
4. Run the script and input any prompted information (likely the subject's age)

Troubleshooting

- This code sometimes doesn't work on older (<2007) data
- Not Currently supported for score-sara models
- Ensure there aren't other legacy codes on the matlab path, the function library provided may be slightly different from other legacy codes (aka read_c3d, open_c3d, etc)
- Let Ricky know if you are having issues