ECGViewer Function Reference

ecgViewer – generates main GUI and contains sub-functions

closeGUI – saves parameters and closes gui

updatePreview - helper function that updates gui plots

processEcg - processes the selected ecg data by filtering, detecting rwaves and locating IBI outliers. It then plots the filterd ECG, rwave locations and IBI outliers

filterEcg – applies filter to ecg

detectBeats – detects "beats" using template matching

filterIBI – filters IBI signal

displayResults – displays IBI statistical results in a table

createResults – creates the table for ibi statistical results

keyPress – Captures and handles any keyboard button presses on the GUI. Used for creating keyboard shortcuts for the GUI.

checkFiltInputs - check inputs for filter options

checkRwaveInputs - check inputs for beat/rwave detection options

checkIbiFiltInputs - check inputs ibi filter options

populateFiles – populates the list of files

LoadParameters – loads any saved parameter files

saveParameters – saves parameters/options to a file for later use.

showProgress – gives the user a progress message update on the gui.

clickEvent - Handles click event to allow user to either add annotation for current file or mark current file as being "complete"

addAnnotaion – adds annotation to database

addCompletedFile – marks files as complete in database

removeHTML – removes html syntax from a str

getFiletype - returns the filetype to be used in generating the list of ECG files