**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 annotion 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