To run it, simply write TW1LAP on the Matlab command window.

Then:

1) in the opening figure, click on the I/O menu and select "load AQ data".

2) you need to select the file  that contains the matrices to be analyzed (one beat per line, zero at the end): then a list of the matlab variables that it contains will be shown: select the variable that contains the data you want to average.

3) In the figure, click on Compute: you will have to input the starting waveform in the matrix (usually 1), and number of consecutive waveforms to be averaged (always power of 2)

4) you will be shown the waveforms, and you have to confirm the selection (or change it)

5) you have to enter the width of the computing window in samples; I was using 15 for a signal sampled at 1500 Hz.

6) at the end of the processing, in the figure the final average is shown, and you are asked to save the results. In  the variable Temp, in the last row, you get this waveform saved.

7) before processing and other matrix, better to clear all, close all.

Other available options were not tested or optimized for now.