***Persistence* version 3_2 (April 2015)**

Descriptions of generated output files:
Note: "xxx" below represents the user-generated file name.

1. xxx_selections.mat: used for reanalyzing previously selected filaments.

   Column 1: filament position map (*i*, *j*)=(*y*, *x*).

   Column 2: position derivative map ($\frac{di}{dt}$, $\frac{dj}{dt}$)=($-\frac{dy}{dt}$, $\frac{dx}{dt}$).

   Note: *i* and *j* indices correspond to *y* and *x* axis respectively and *i* runs from the top of the image to the bottom, while y runs from bottom to top. The tangent values are calculated from $\frac{dj}{dt}\Big/\frac{di}{dt}=-\frac{dx}{dy}$ and $\frac{di}{dt}\Big/\frac{dj}{dt}=-\frac{dy}{dx}$. The former, the tangent to the y-axis, is used by the software.

2. xxx_Nfils_Cs_raw.txt: cosine correlation values.

   Column 1: segment length.
   Column 2: raw cosine correlation ($\cos\left[\theta(s)-\theta(0)\right]$).
   Column 3: raw relative angle ($\theta(s)-\theta(0)$).

3. xxx_ Nfils_ave_Cs.txt:

   Column 1: segment length.
   Column 2: averaged cosine correlation values.
   Column 3: standard deviation of cosine correlation.
   Column 4: standard error of cosine correlation.
   Column 5: average relative angle.
   Column 6: standard deviation of relative angle.
   Column 7: standard error of relative angle.
   Column 8: number of raw data points for the corresponding averaged data point.

4. xxx_ Nfils_bending_modes.txt:

Column 1:	contour length.
Column 2:	end to end distance.
Columns 3 and 4:	centroid.
Columns 5 to 14:	first 10 Fourier cosine mode amplitudes.
Column 15:	frame number.
Column 16:	filament number in the corresponding frame.

5. xxx__Nfils_end_to_end_vs_contour_lengths.txt:

   Column 1: contour length.
   Column 2: end-to-end length.

6. xxx_ _Nfils_tangent_angles.txt:

   Column 1: filament identifier.
   Column 2: segment length from one end to the data point.
   Column 3: raw data for tangent angle relative to *i* index, i.e. y-axis (see explanation in file 1 description).
   Column 4: curvature values.
   Column 5: frame number.
   Column 6: filament number in the corresponding frame.

7. xxx_ Nfils_contours.txt:

   Column 1: filament identifier.
   Columns 2 and 3: *i* and *j* position indices of filaments.
   Columns 4 and 5: $\frac{di}{dt}$ and $\frac{dj}{dt}$ values (see explanation in file 1 description).
   Column 6: frame number.
   Column 7: filament number in the corresponding frame.