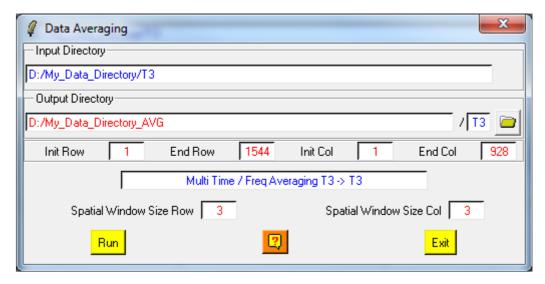# Data Averaging

Description:

Creates a time-series averaged raw binary data sets constructed from time-series polarimetric raw binary data sets.

The data averaging is a combination of a spacial averaging (sliding window) and time averaging (time domain along the time series)

Comments:

Parameters written in Red can be modified directly by the user from the keyboard.

Input/Output Arguments:

Input Directory — Indicates the complete location of the considered **Main Directory (MD)** containing the **[S2]** matrix data to be processed.

Output Directory — Indicates the location of the processed data output directory.
The default value is set automatically to :
Main Directory_AVG (MD_AVG).

Output Image Number of Rows/Columns:

The output image numbers of rows and columns are initialised to the input data set dimensions.
Users wishing to process a sub-part of the initial image can modify the **Init** and **End** values of the converted images rows and columns.
Note: init and end values have to remain within the range defined by the input image dimensions.

Processing Parameters:

Window size   Users have to set the size of the (N*N) sliding window used to compute the local estimate of the average matrix.
The default value of N is set to **7**.