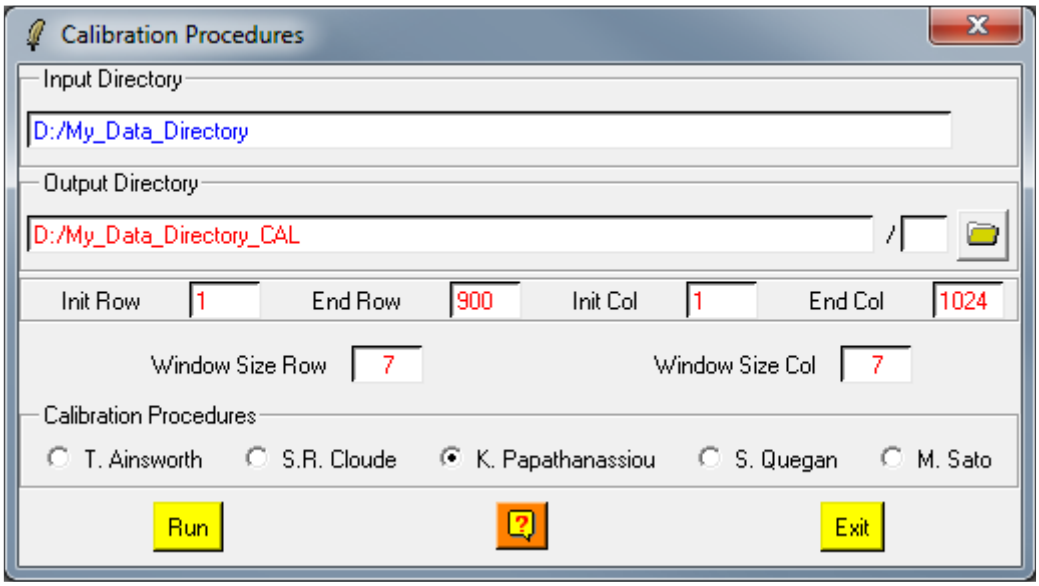
Calibration Procedures



Description:

This function is used to apply a Polarimetric Calibration functionalities on (2x2) Sinclair matrix (**[S2]**) raw binary data format to correct imported data for perturbations due to the radar system prior to further processing.
The three included calibration procedures are based on published works (S.Quegan, K. Papathanassiou, T. Ainsworth, SR Cloud eand M. Sato methods). Users have to choose among the different methods according to their needs.

This Application can only be applied on (2x2) Sinclair matrix (**[S2]**) raw binary data format.

Comments:

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

Input/Output Arguments:

Input Directory	Indicates the location of the considered **Main Directory (MD)** containing the polarimetric data sets to be filtered.
Output Directory	Indicates the location of the calibrated data output directory. The default value is set automatically to : **Main Directory_CAL**.

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.

Calibration Parameters:

Window size Row	Users have to set the size of the sliding window along the **Row direction** used to compute the local estimate of the average matrix. The default value is set to **7**.
Window size Col	Users have to set the size of the sliding window along the **Col direction** used to compute the local estimate of the average matrix. The default value is set to **7**.