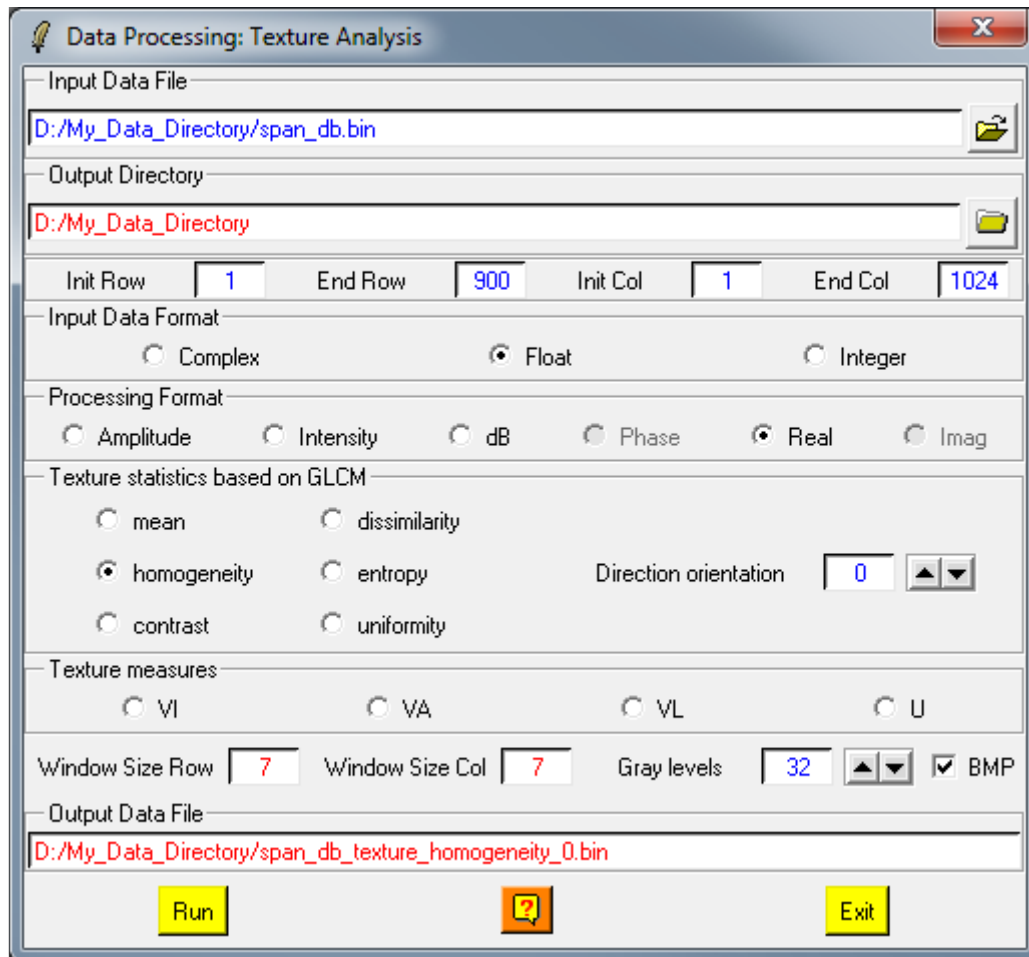


Texture Analysis



The screenshot shows the 'Data Processing: Texture Analysis' window. It contains the following fields and options:

- Input Data File:** D:/My_Data_Directory/span_db.bin
- Output Directory:** D:/My_Data_Directory
- Init Row:** 1, **End Row:** 900, **Init Col:** 1, **End Col:** 1024
- Input Data Format:** ☐ Complex, ☒ Float, ☐ Integer
- Processing Format:** ☐ Amplitude, ☐ Intensity, ☐ dB, ☐ Phase, ☒ Real, ☐ Imag
- Texture statistics based on GLCM:**
 - ☐ mean, ☐ dissimilarity
 - ☒ homogeneity, ☐ entropy
 - ☐ contrast, ☐ uniformity
- Direction orientation:** 0 (with up/down arrows)
- Texture measures:** ☐ VI, ☐ VA, ☐ VL, ☐ U
- Window Size Row:** 7, **Window Size Col:** 7, **Gray levels:** 32 (with up/down arrows), ☒ BMP
- Output Data File:** D:/My_Data_Directory/span_db_texture_homogeneity_0.bin
- Buttons:** Run, Help (question mark icon), Exit

Description:

Creates binary files corresponding to different texture parameters constructed from polarimetric raw binary data.

An option may be set to simultaneously create the corresponding bitmap image files

The different proposed polarimetric texture functionalities are based on GLCM or on dedicated texture measures.

Comments:

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

Input/Output Arguments:

Input data file	Indicates the complete location of the considered polarimetric data file to be analysed.
Output Directory	Indicates the location of the processed data output directory. The default value is set automatically to : Main Directory (MD).

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 .
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