

Compact Decomposition

Data Processing : Compact Decomposition

Input Directory:

Output Directory: /

Init Row: End Row: Init Col: End Col:

Hybrid Compact - Pol Architecture (Orthogonal Linear H and V Receive)

☒ Left Handed Circular Transmit ☐ Right Handed Circular Transmit

<input checked="" type="checkbox"/> EigenValues (L1, L2)	<input checked="" type="checkbox"/> BMP
<input checked="" type="checkbox"/> PseudoProbabilities (p1, p2)	<input checked="" type="checkbox"/> BMP
<input checked="" type="checkbox"/> Entropy (H)	<input checked="" type="checkbox"/> BMP
<input checked="" type="checkbox"/> Anisotropy (A) (p1, p2) <-> Degree of Polarisation	<input checked="" type="checkbox"/> BMP
<input checked="" type="checkbox"/> Compact RVoG : mv	<input checked="" type="checkbox"/> BMP
<input checked="" type="checkbox"/> Compact RVoG : ms	<input checked="" type="checkbox"/> BMP
<input checked="" type="checkbox"/> Compact RVoG : alpha_s	<input checked="" type="checkbox"/> BMP
<input checked="" type="checkbox"/> Compact RVoG : phi	<input checked="" type="checkbox"/> BMP
<input checked="" type="checkbox"/> Pseudo 3-Components decomposition (Ps, Pd, Pv)	<input checked="" type="checkbox"/> BMP
<input checked="" type="checkbox"/> Cross-Pol sigma_HV	<input checked="" type="checkbox"/> BMP
<input checked="" type="checkbox"/> Surface to Volume ratio	<input checked="" type="checkbox"/> BMP
<input checked="" type="checkbox"/> Circular Polarization Ratio	<input checked="" type="checkbox"/> BMP
<input checked="" type="checkbox"/> Mean Particule Shape	<input checked="" type="checkbox"/> BMP
<input checked="" type="checkbox"/> Width of the Distribution of Particule Orientation (tau)	<input checked="" type="checkbox"/> BMP

Window Size Row: Window Size Col:

Description:

Creates binary files corresponding to different parameters constructed from compact / hybrid polarimetric raw binary data.

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

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 data to be processed.
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.
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