Notes on Mars Dune crestline detection

From the Ganges dunefield image mosaic, I selected two areas of similar dunes each 10 km by 4 km, which can be used as test and training data sets – area 1 and area 2. See Ganges test areas.jpg for their location.

From the data provided by David Vaz, I extracted the following:  
  
1. Image data 10 km by 4 km area: Area\_1\_image1.tif, Area\_2\_image1.tif.

2. Mapped crestlines (ground truth): Area\_1\_crestlines\_all\_img.jpg; Area\_2\_crestlines\_all\_img.jpg

3. All lineaments classified by Vaz (this includes features that are not aeolian): Area\_1\_lin\_img.jpg: Area\_2\_lin\_img.jpg

4. Data sets with the length, azimuth, starting and end x,y coordinates of all mapped and identified features (excel workbooks); all units are meters

For details of the datasets, please see data description from David Vaz.

Note that the ganges\_lin data includes several classes of features – slip faces are in the column NN\_CLASS21 and are coded as class\_id3=2.

The folder includes in addition:

Images that show all mapped (ground truth) and classified features