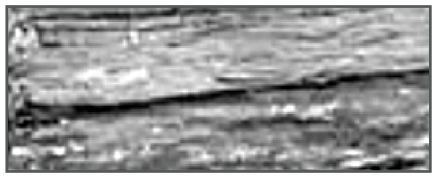
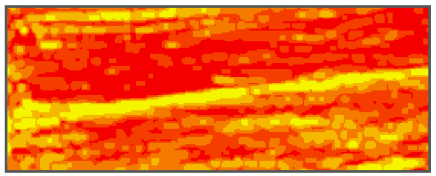
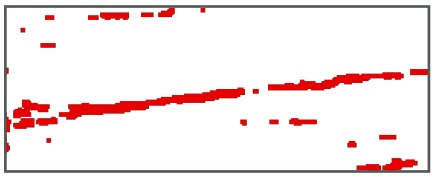
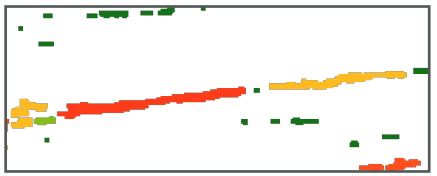
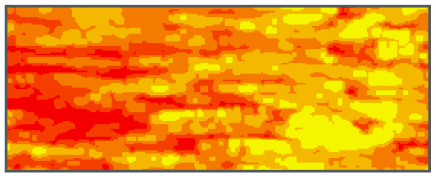
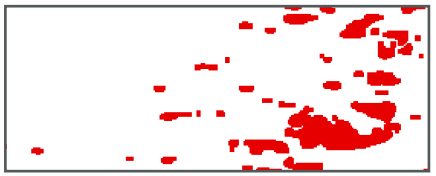
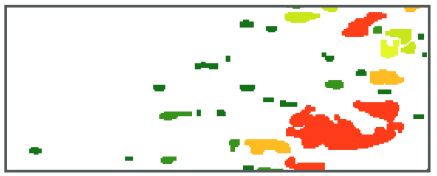
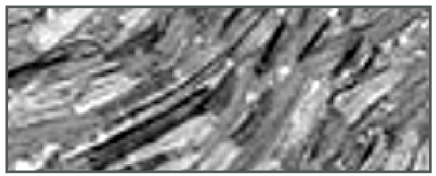
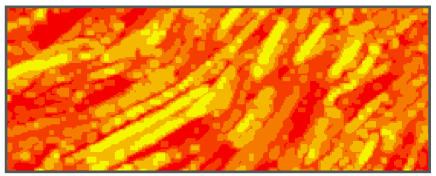
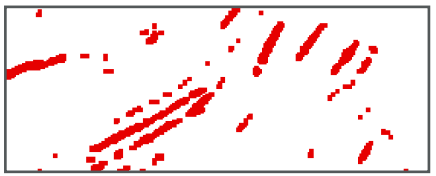
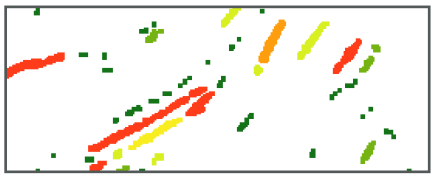
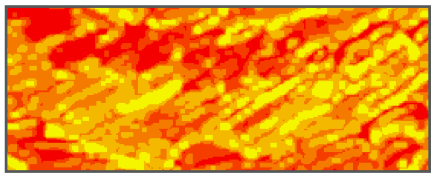
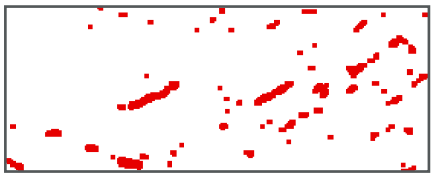
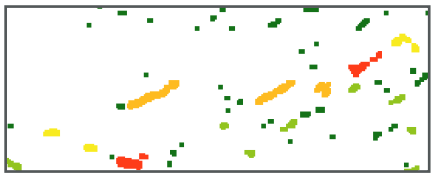
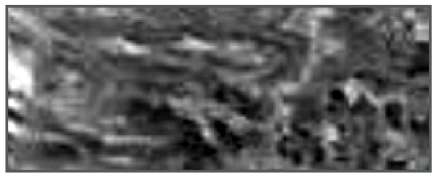
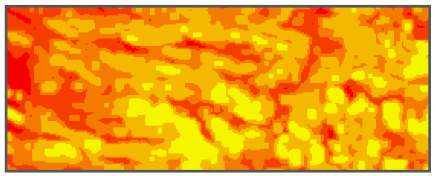
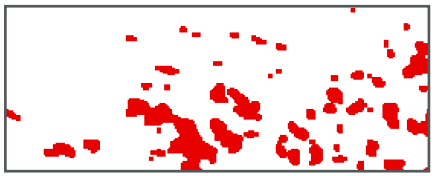
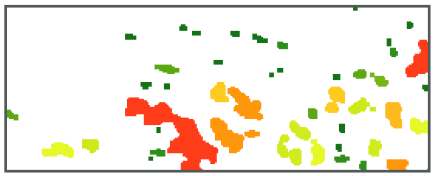
Homework 5 Identify Images **Zile WU**

Criterion1 - Brush size

In the process of painting, in order to ensure the uniformity of the style of the picture, the painter often uses the same size brush to shape the texture of the picture. We can extract the traces from the picture. By calculating thinkness by zonal geometry, different paintings are grouped together.

	Step 1-focal statisic minimnm in the neighborhood of 3*3	Step 2 - reclassify natural breaks in 5 grades lowerest grade = 1	Step 3 - region group +zonal geometry caculate the thickness	RESULT Group1 ACD Group2 BE
				A Range from 1.5 to 3.707
				B Range from 1.5 to 9.535
				C Range from 1.5 to 3.707
				D Range from 1.5 to 3.5
				E Range from 1.5 to 8.363

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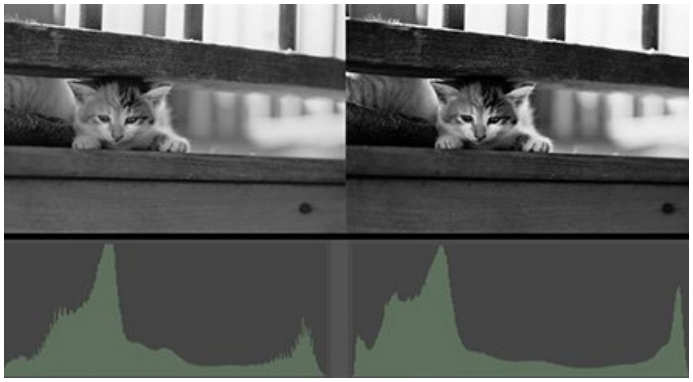
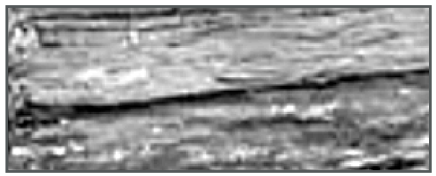
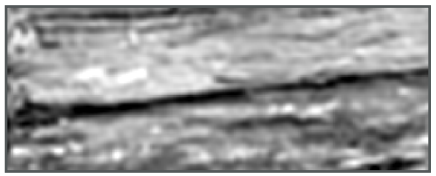
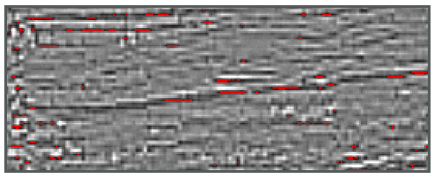
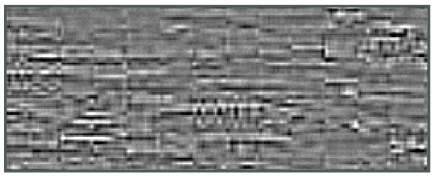
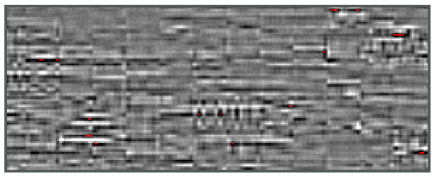
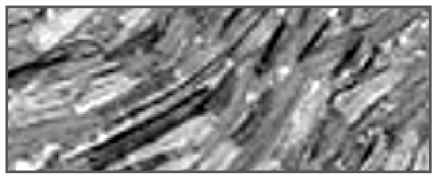
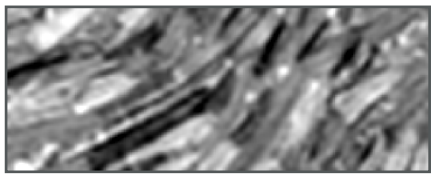
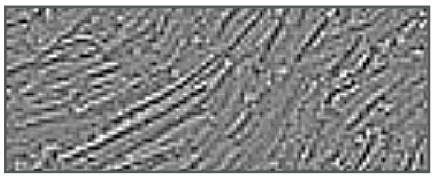
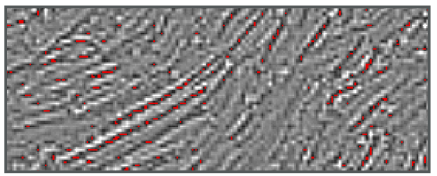
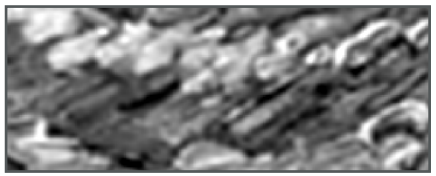
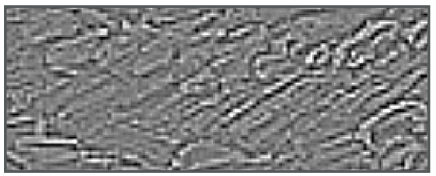
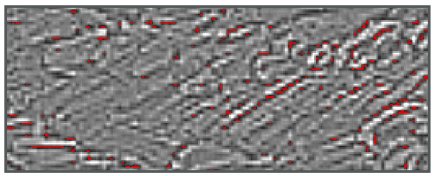
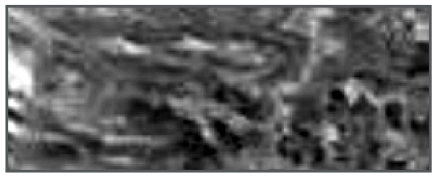
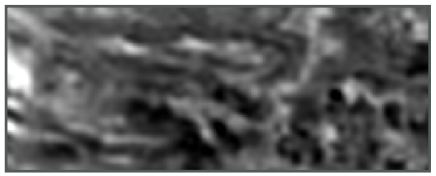
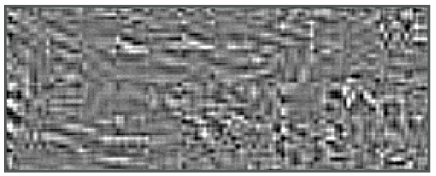
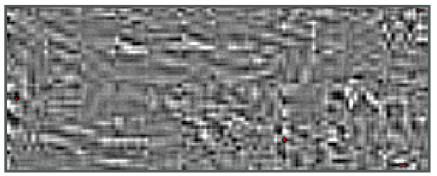
Criterion2 - Color Contrast

In the process of painting, the color contrast tends to vary from painter to painter without using the painting. In raster analysis, a high contrast means a higher probability of larger differences between rasters in the neighborhood. Using this, we can also distinguish between different paintings



	Step 1-focal statisic mean in the neighborhood of 5*5	Step 2 - raster caculater the original layer minus the processed layer	Step 3 - reclassify <-1 = 1 count the number >-1 = Nodata	**RESULT** **Group1 ACD** **Group2 BE**
				A Raster quantity 397
				B Raster quantity 36
				C Raster quantity 453
				D Raster quantity 553
				E Raster quantity 13