all ImageSegmentation.java methods applied to a few pairs of images that are panoramic sets or stereo image sets with the goal of finding best segmentation for finding blobs to make matchable contours.

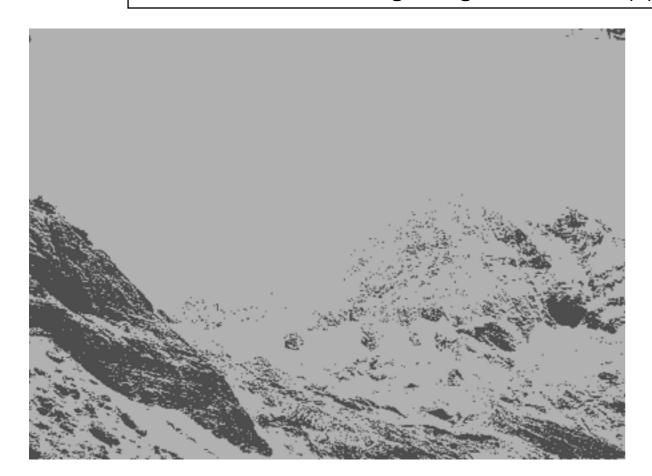
summary of next pages:

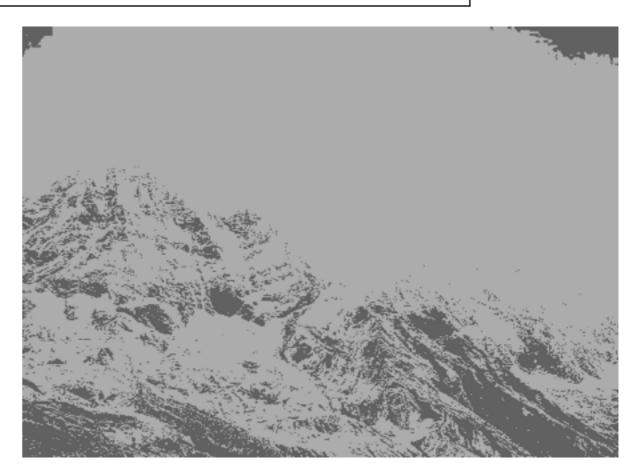
for brown & lowe 2003, best was KMPP w/ k=2 for Venturi, best was PolarCIEXYAndFrequency for books, best was KMPP w/ k=2, 3 or 8

Venturi has lots of texture, so attempting a low resolution segmentation first is faster (the polar ciexy and frequency segmentation is O(N)... check that).

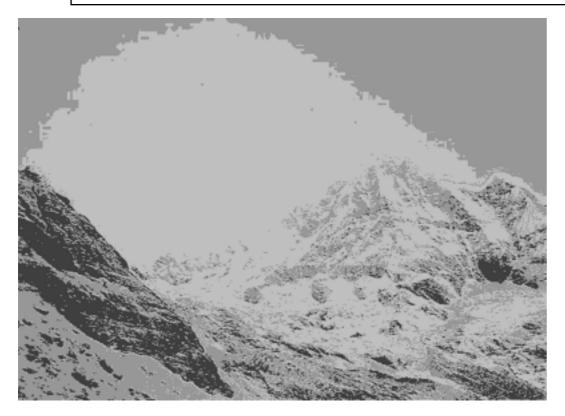
Books best matchable features w/o illumination and projection differences are the text. The text needs further processing such as adaptive mean thresholding.

int kBands = 2; imageSegmentation.applyUsingKMPP(gsImg1, kBands);





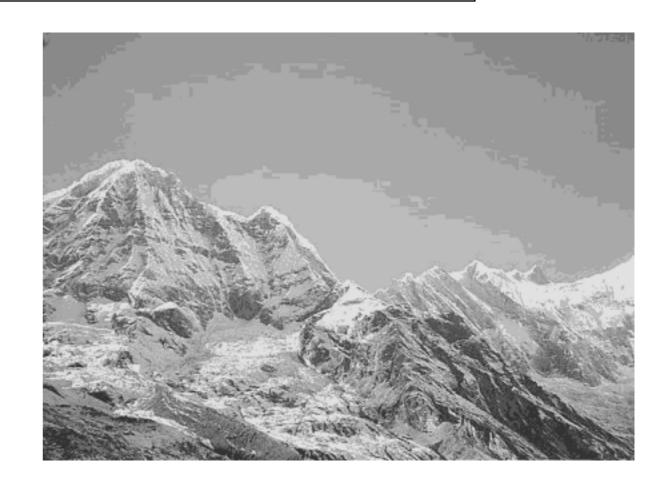
int kBands = 3; imageSegmentation.applyUsingKMPP(gsImg1, kBands);



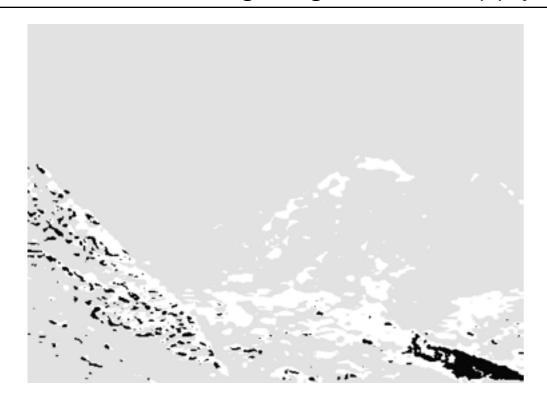


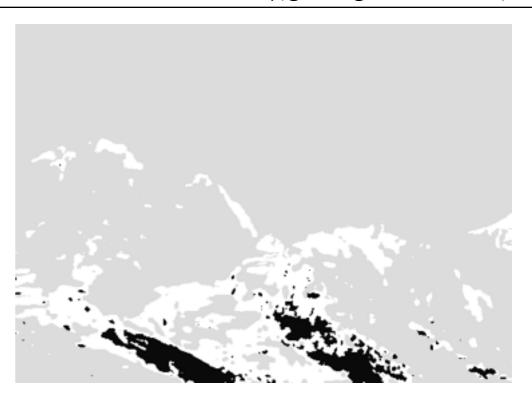
int kBands = 8; imageSegmentation.applyUsingKMPP(gsImg1, kBands);



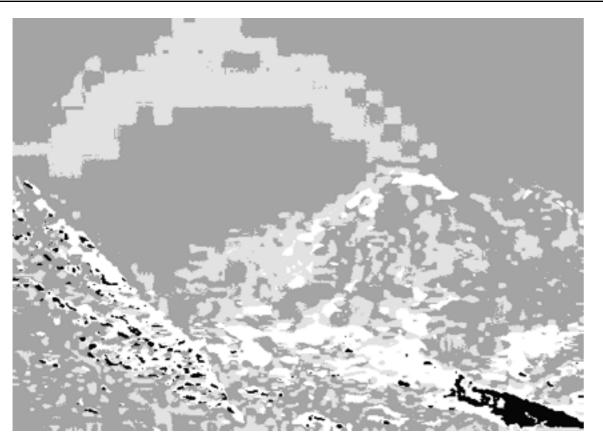


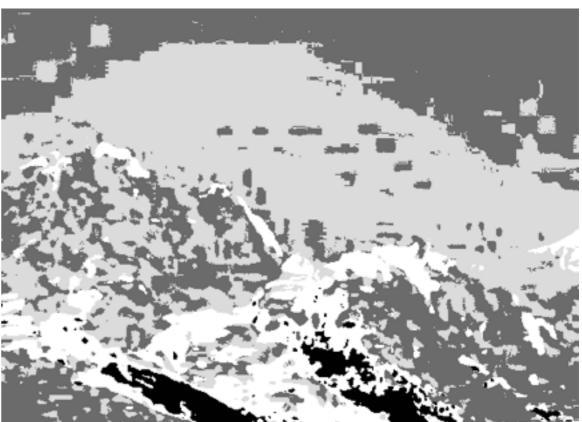
int kBands = 2; imageSegmentation.applyUsingClEXYPolarThetaThenHistEq(gslmg1, kBands);



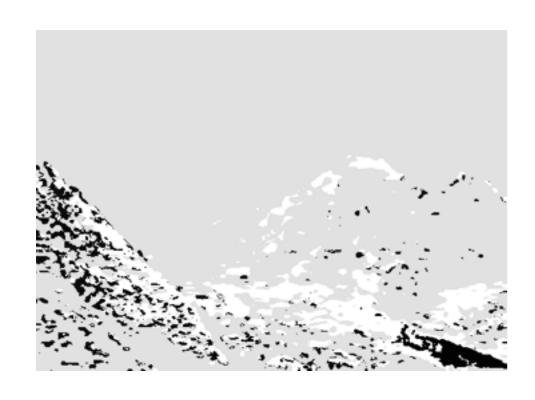


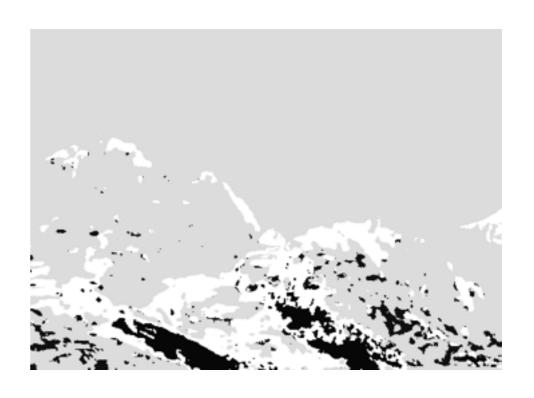
int kBands = 3; imageSegmentation.applyUsingCIEXYPolarThetaThenHistEq(gsImg1, kBands);



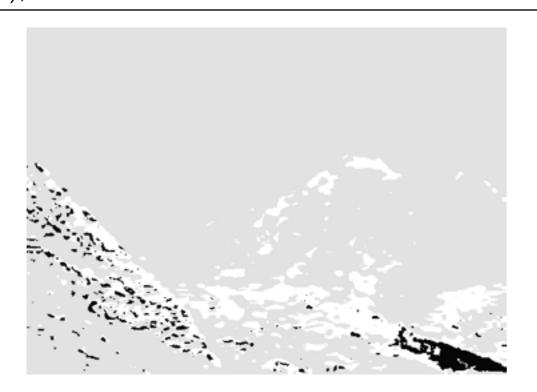


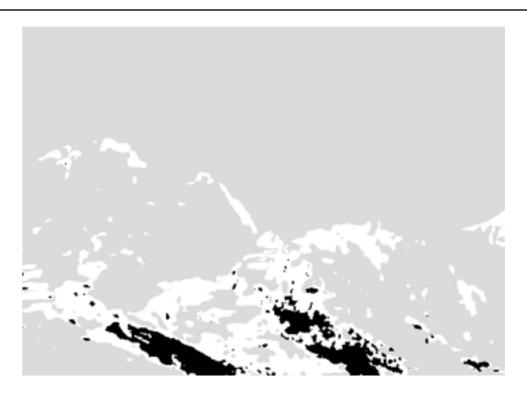
int kBands =8; imageSegmentation.applyUsingCIEXYPolarThetaThenHistEq(gsImg1, kBands);



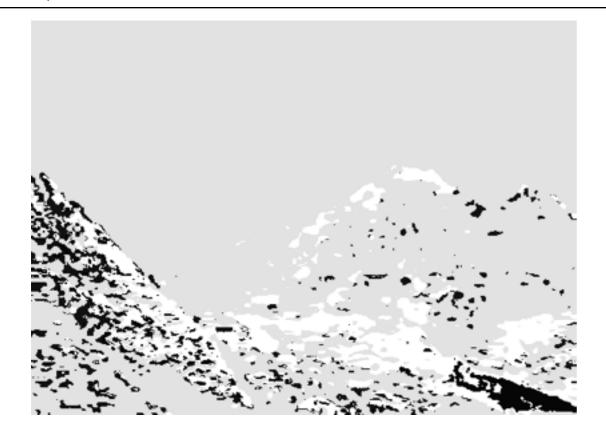


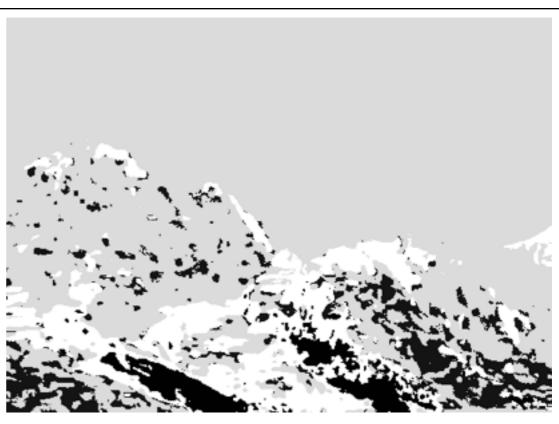
int kBands = 2; imageSegmentation.applyUsingClEXYPolarThetaThenKMPPThenHistEq(gslmg1, kBands);



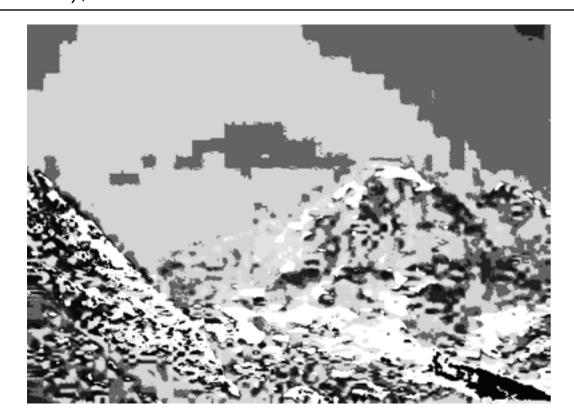


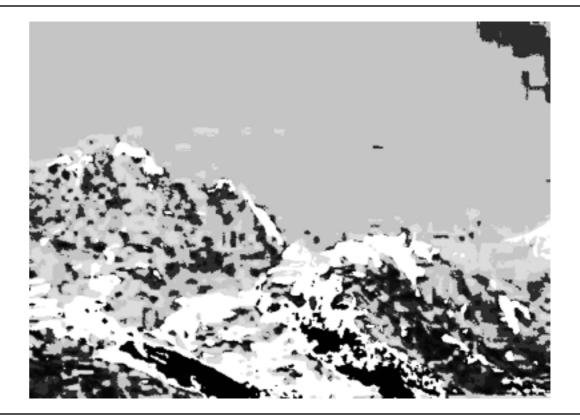
int kBands = 3; imageSegmentation.applyUsingCIEXYPolarThetaThenKMPPThenHistEq(gsImg1, kBands);





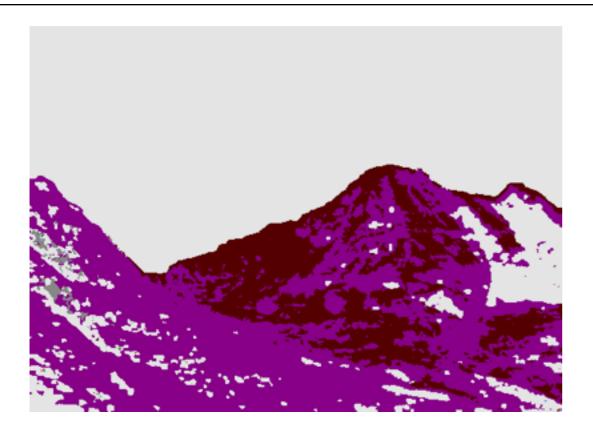
int kBands = 8; imageSegmentation.applyUsingClEXYPolarThetaThenKMPPThenHistEq(gsImg1, kBands);

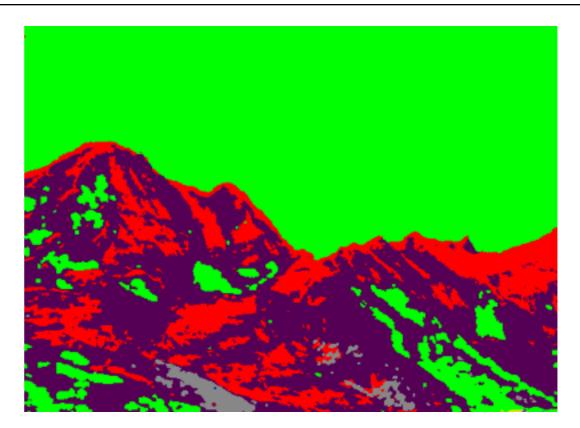




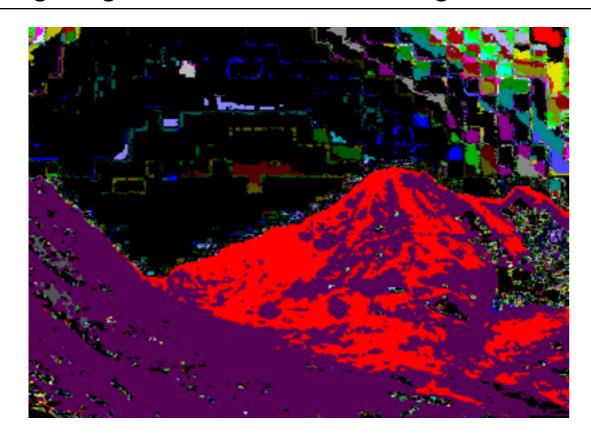
int kBands = 2; imageSegmentation.applyUsingCIEXYPolarThetaThenHistogram(gsImg1, kBands);

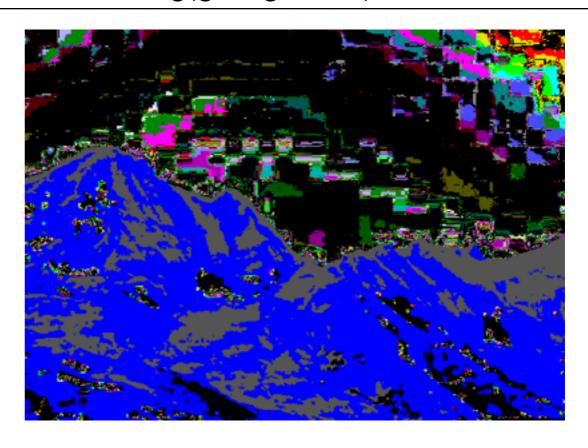
imageSegmentation.calculateUsingCIEXYAndClustering(gsImg1, true);



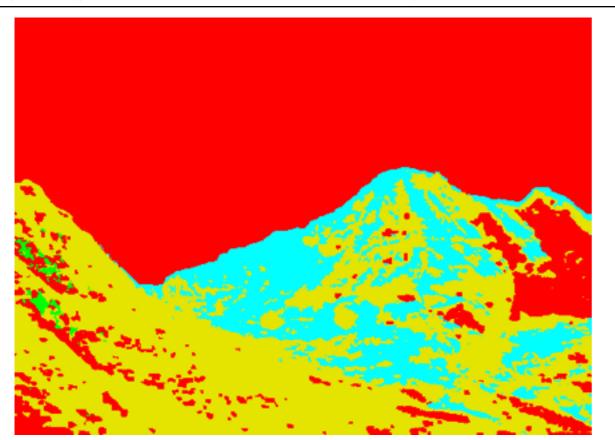


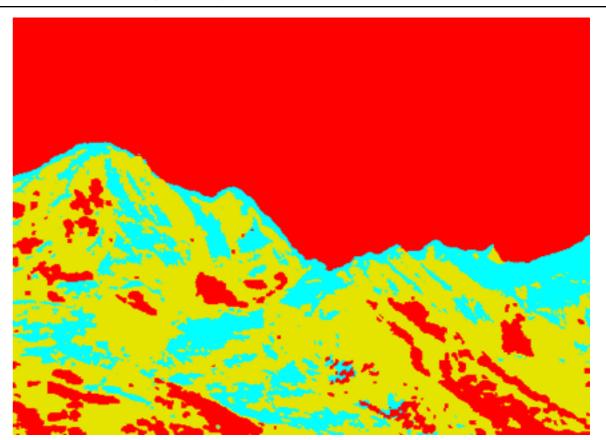
imageSegmentation.calculateUsingPolarCIEXYAndClustering(gsImg1, true);



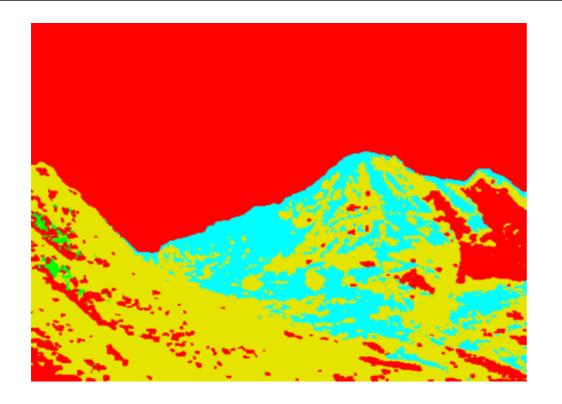


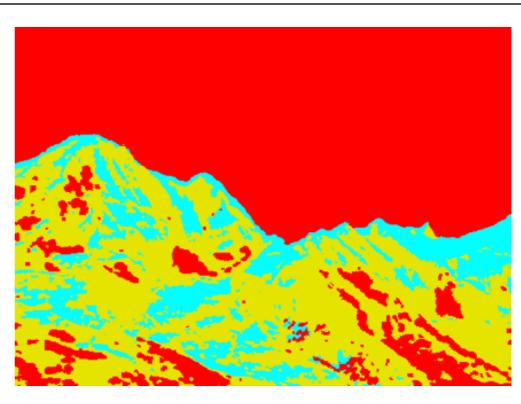
imageSegmentation.calculateUsingPolarCIEXYAndFrequency(gsImg1, true);



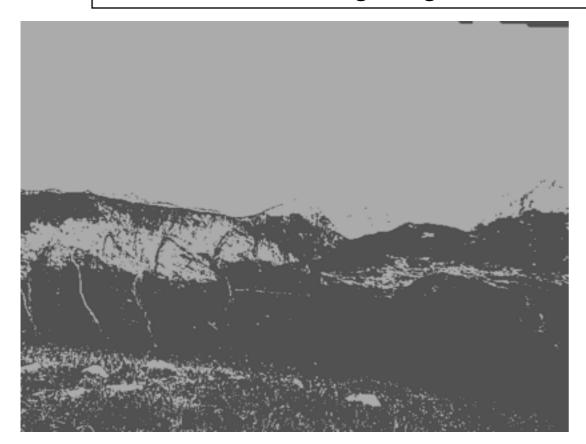


imageSegmentation.calculateUsingPolarCIEXYAndFrequency(gsImg1, 0.2f, true);





int kBands = 2; imageSegmentation.applyUsingKMPP(gsImg1, kBands);





int kBands = 3; imageSegmentation.applyUsingKMPP(gsImg1, kBands);





int kBands = 8; imageSegmentation.applyUsingKMPP(gsImg1, kBands);





int kBands = 2; imageSegmentation.applyUsingCIEXYPolarThetaThenHistEq(gsImg1, kBands);



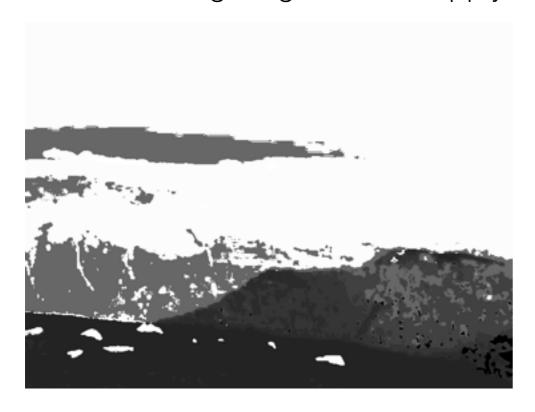


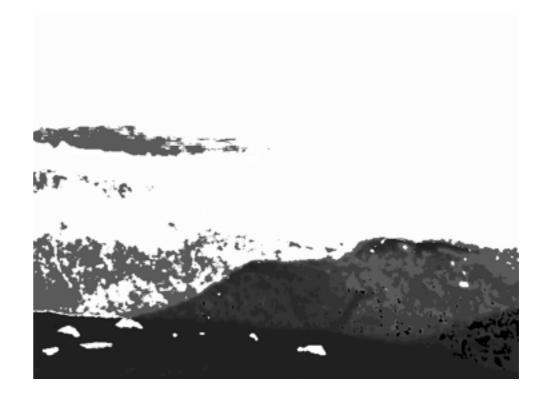
int kBands = 3; imageSegmentation.applyUsingCIEXYPolarThetaThenHistEq(gsImg1, kBands);





int kBands = 8; imageSegmentation.applyUsingClEXYPolarThetaThenHistEq(gslmg1, kBands);



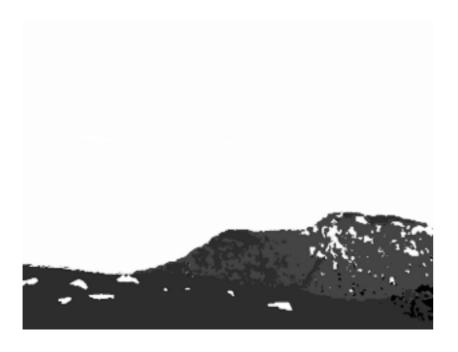


int kBands = 2; imageSegmentation.applyUsingClEXYPolarThetaThenKMPPThenHistEq(gslmg1, kBands);



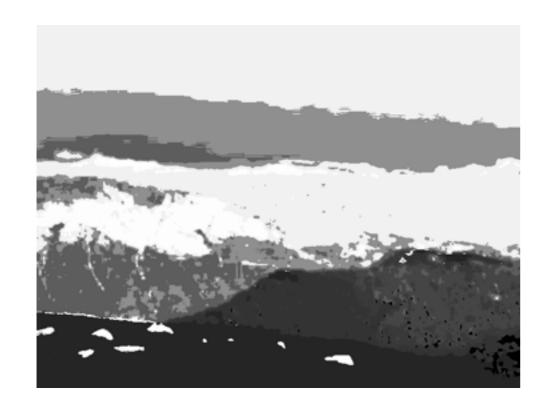


int kBands =3; imageSegmentation.applyUsingClEXYPolarThetaThenKMPPThenHistEq(gsImg1, kBands);





int kBands =8; imageSegmentation.applyUsingCIEXYPolarThetaThenKMPPThenHistEq



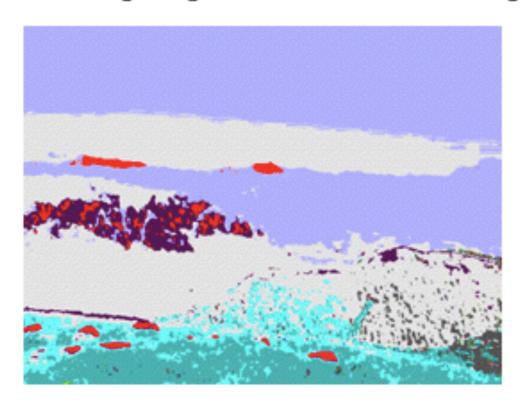


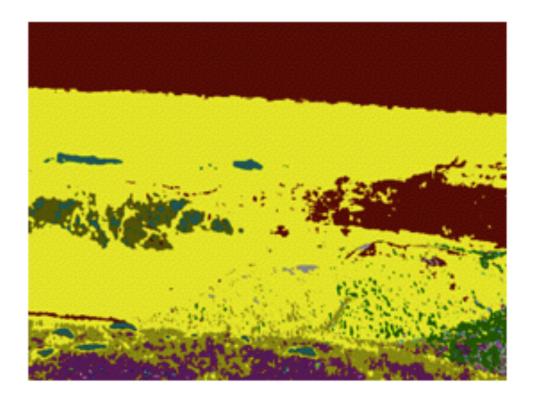
int kBands = 2; imageSegmentation.applyUsingCIEXYPolarThetaThenHistogram(gsImg1, kBands);



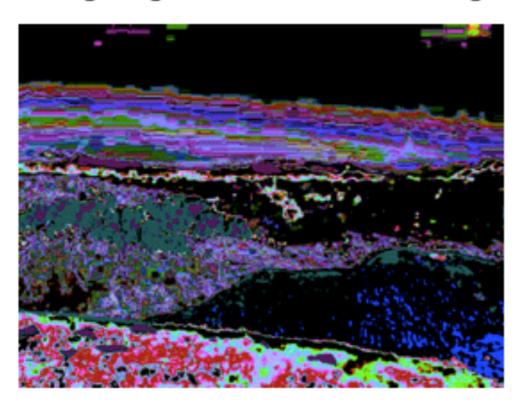


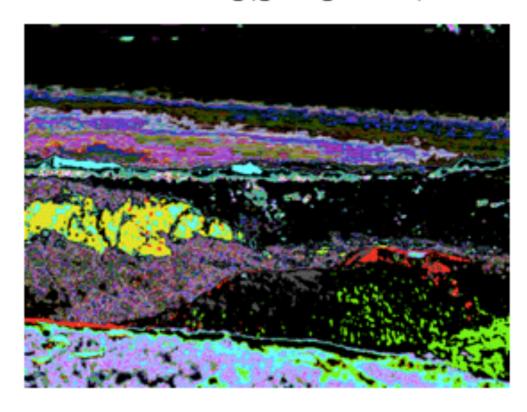
imageSegmentation.calculateUsingCIEXYAndClustering(gslmg1, true);



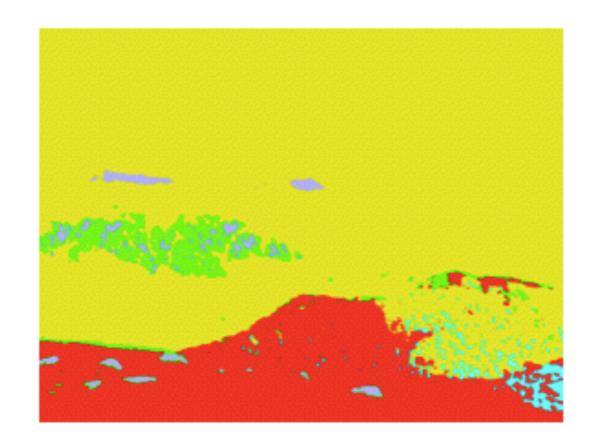


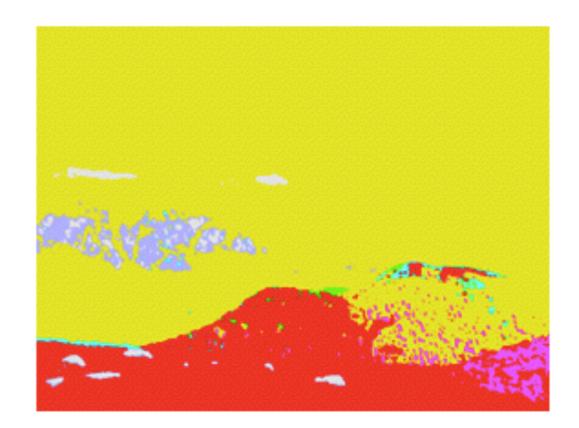
imageSegmentation.calculateUsingPolarCIEXYAndClustering(gslmg1, true);



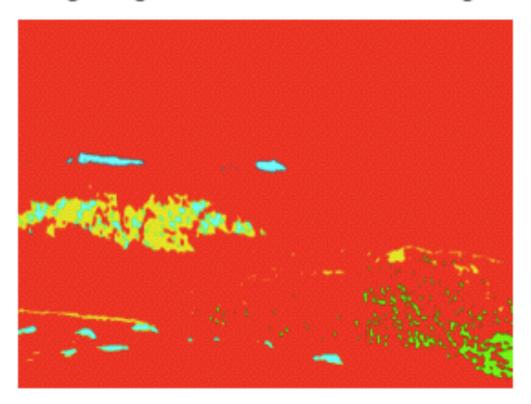


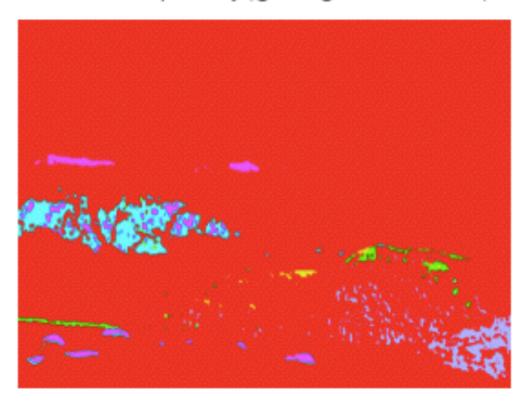
imageSegmentation.calculateUsingPolarCIEXYAndFrequency(gslmg1, true);





imageSegmentation.calculateUsingPolarCIEXYAndFrequency(gslmg1, 0.2f, true);





int kBands = 2; imageSegmentation.applyUsingKMPP(gslmg1, kBands);



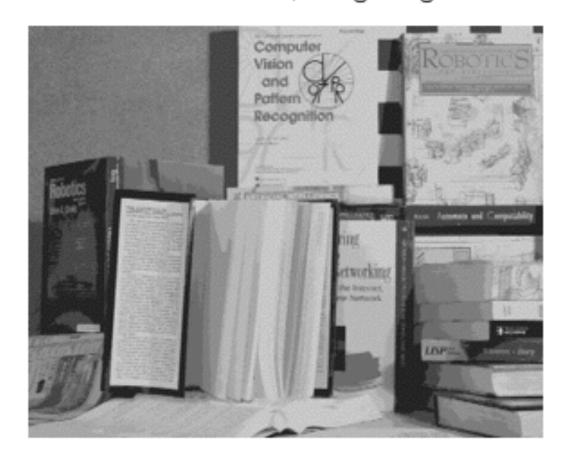


int kBands = 3; imageSegmentation.applyUsingKMPP(gslmg1, kBands);



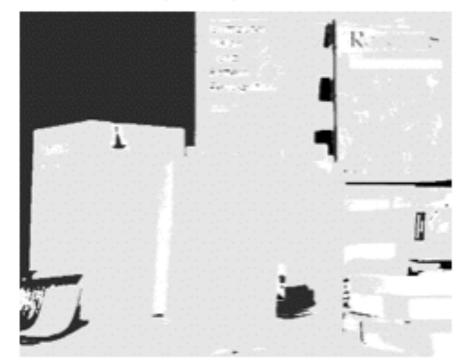


int kBands = 8; imageSegmentation.applyUsingKMPP(gslmg1, kBands);





int kBands = 2; imageSegmentation.applyUsingCIEXYPolarThetaThenHistEq(gslmg1, kBands);





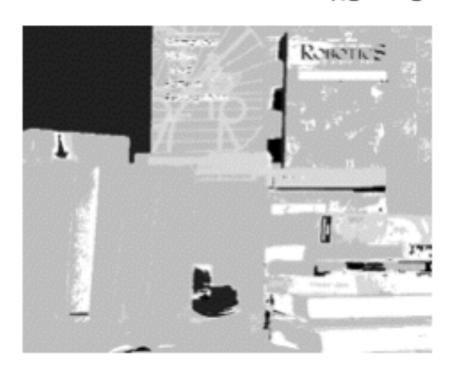
int kBands = 3; imageSegmentation.applyUsingCIEXYPolarThetaThenHistEq(gslmg1, kBands);



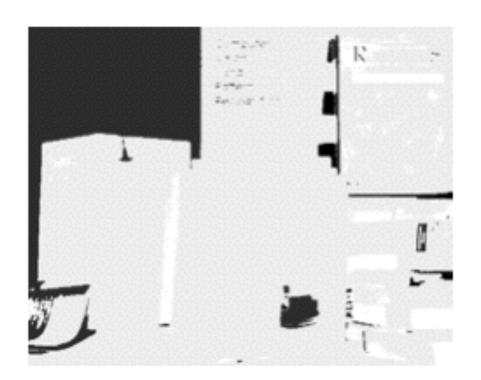


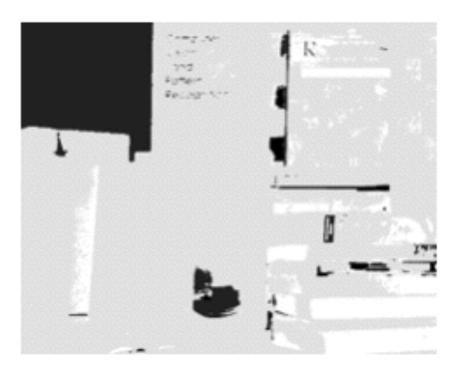
int kBands = 8; imageSegmentation.applyUsingCIEXYPolarThetaThenHistEq(gslmg1, kBands);



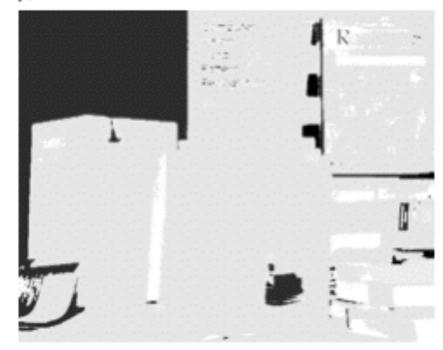


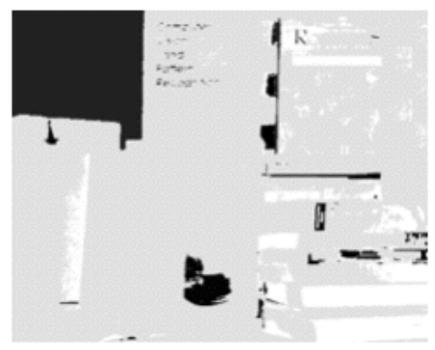
int kBands = 2; imageSegmentation.applyUsingClEXYPolarThetaThenKMPPThenHistEq(gslmg1, kBands);



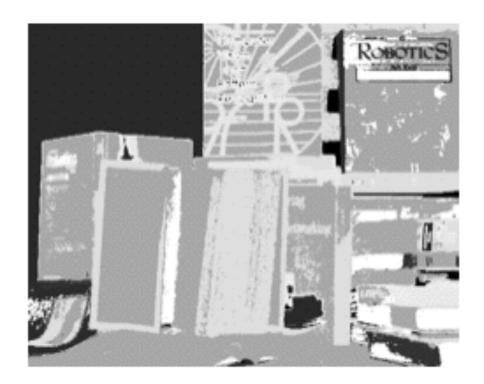


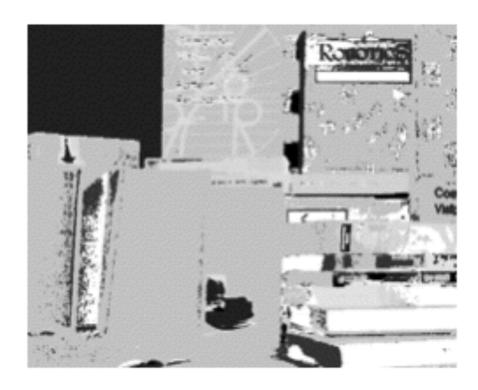
int kBands = 3; imageSegmentation.applyUsingCIEXYPolarThetaThenKMPPThenHistEq(gsImg1, kBands);



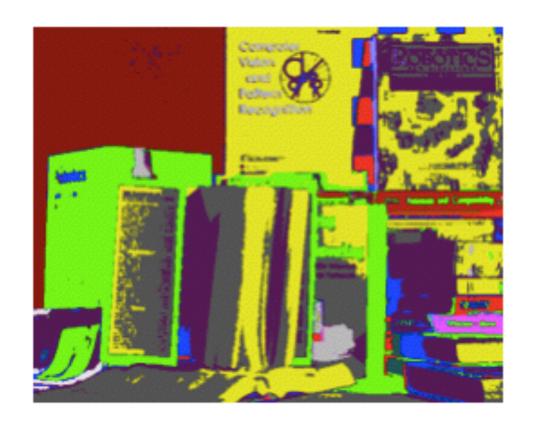


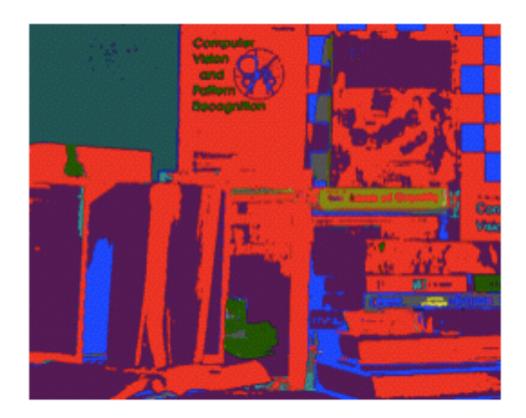
int kBands = 8; imageSegmentation.applyUsingClEXYPolarThetaThenKMPPThenHistEq(gslmg1, kBands);



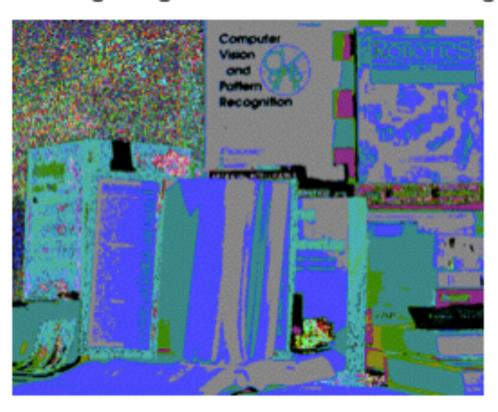


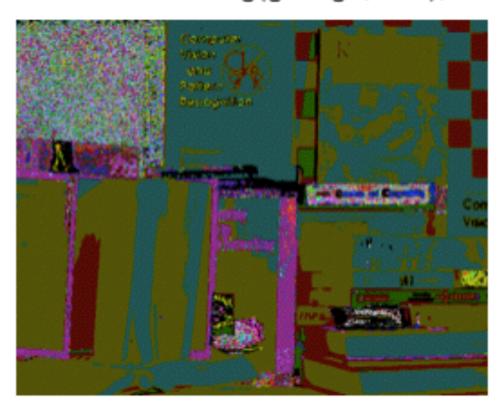
imageSegmentation.calculateUsingCIEXYAndClustering(gslmg1, true);



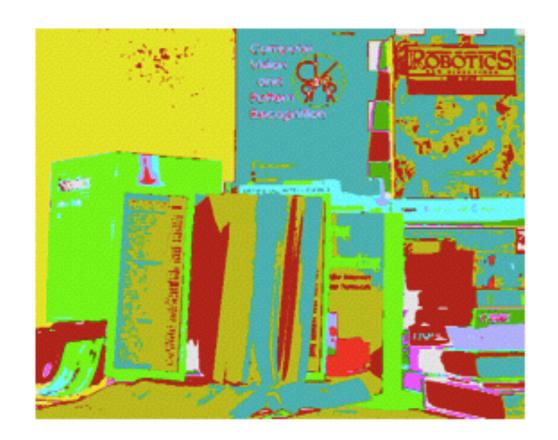


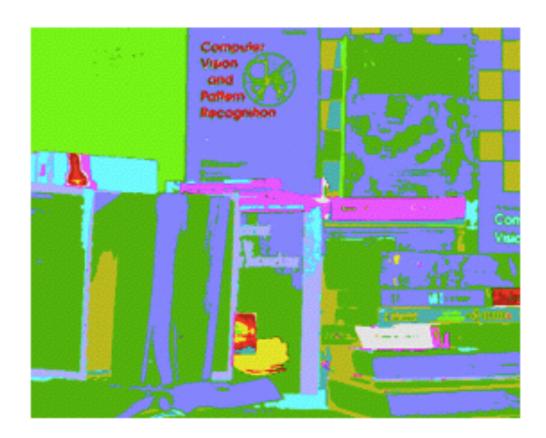
imageSegmentation.calculateUsingPolarCIEXYAndClustering(gslmg1, true);





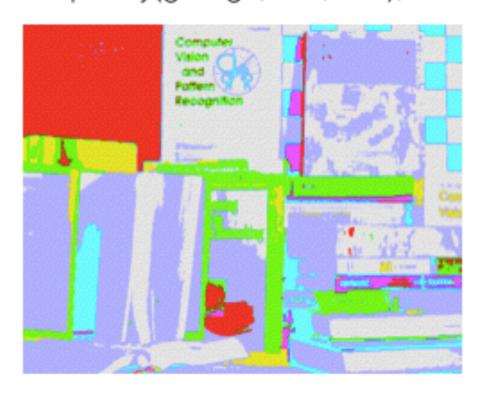
imageSegmentation.calculateUsingPolarCIEXYAndFrequency(gslmg1, true);





imageSegmentation.calculateUsingPolarCIEXYAndFrequency(gslmg1, 0.2f, true);





int kBands = 2; imageSegmentation.applyUsingKMPP(gslmg1, kBands); zoom in

