Changelog

2012-01-10 Fred Duewer

1. CommonAnalysis\SkinDetection\funcfindOutline.m:
   1. Line 31-33: Added following to eliminate crash if large CCD has zeros on CCD edge near breast:
      1. image(1:end,1:5)=1;
      2. %FD 11/16/2011 added to remove problems with large images having zeros at
      3. %the edge of the CCD. not a great solution.
   2. Line 47:
      1. if (alpha<0.1) %stop the process (faillure) %stop the process (faillure)FD 10/16/2011 Removed the time counter because it is processor dependent and also makes debugging hard.
2. CommonAnalysis\SkinDetection\nipple\_removing.m
   1. Line 10-17: Modified code to remove possible indexing-related crash
      1. if minr<51
      2. minr=minr+50;
      3. end
      4. if maxr>(size(range\_index)-50)
      5. maxr=maxr-50;
      6. end
      7. %FD 1/12/2012 Added to eliminate possible crash related to
      8. %indexing error
3. CommonAnalysis\SkinDetection\funcFindStuffOnOutline.m
   1. Line 151, 157-158: modified code to remove possible indexing error
      1. i=min(i,numel(Outline.x));
4. SXA step phantom\background\_phantomdigital.m
   1. Lines
      1. %FD 1/12/2012 Uses lowest 3rd percentile rather than lowest value to
      2. %improve reproducibility.
      3. % max\_image = max(max(image)); %%%
      4. %min\_image = min(min(phantom\_image)); %%%
      5. sortedImage=sort(squeeze(reshape(image1, numel(image1), 1)));
      6. %create a one dimensional sorted version of image
      7. min\_image=single(sortedImage(round(numel(image1)\*0.03)));
      8. %Get the smallest value in the image. This value is used directly in
      9. %background computation. So, this is not robust.
      10. sortedImage=sort(squeeze(reshape(Image.OriginalImage, numel(Image.OriginalImage), 1)));
      11. %create a one dimensional sorted version of image
      12. min\_image\_orig=single(sortedImage(round(numel(Image.OriginalImage)\*0.03)));
5. CommonAnalysis\ComputeBackGroundV2.m
   1. Lines: 26-36: Increased size of crop window to handle larger breasts
      1. % ymin = 385;
      2. ymin=50;
      3. % ymax = image\_size(1) - 385;
      4. ymax= image\_size(1)-50;
      5. % xmin = 385;
      6. xmin= 50;
      7. % xmax = image\_size(2) - 385;
      8. xmax=image\_size(2)-50;
      9. %FD 11/17/2011 Prior limits failed for large breasts. There may be
      10. %memory issues with the new limits - but they will
      11. %hopefully work on Ming.
6. FractalAnalysis\StructuralAnalysisComputation.m
   1. Line 5: UnderSamplingFactor changed to 1 from 3 for consistency with prior work.
   2. Line 393: Replaced sum(no\_nansum(… with nansum(nansum(… because of a crash.
   3. Line 560: Replaced logf>1.5 with logf>1.2 for consistency with film data.
   4. Line 600-607: Modified to avoid crash
      1. UnderSamplingFactor = 1;
      2. CurrentImage=UnderSamplingN(CurrentImage,UnderSamplingFactor);
      3. im\_size = size(CurrentImage);
      4. min\_image = min(min(CurrentImage));
      5. CurrentImage = round((CurrentImage-min\_image)/4) + round(min\_image/4);
      6. max\_image = max(max(CurrentImage));
      7. min\_image = min(min(CurrentImage));
   5. Lines 635-640: Modified for consistency with film calculations
      1. num\_levels = max\_image-min\_image;
      2. s = zeros(1, num\_levels);
      3. N = zeros(1, num\_levels);
      4. p = zeros(1, num\_levels);
      5. grv = zeros(1, num\_levels);
   6. Line 640: Modified variable name
   7. Line 664: Modified variable name