3_Align_IRR

June 20, 2018

This code uses the Python Open CV library to align near infrarred and red band images in the format tif and combines them to produce an aligned image in the format JPG. In addition, this code transfers the GPS information from the image in the reference band to the aligned RGB image.

Extensions asociated to each name file refers to a differente band as is detailed below '*_1.tif' = Blue Band '*_2.tif' = Green Band '*_3.tif' = Red Band '*_4.tif' = Near Infrarred Band '*_5.tif' = Rededge Band

The output can be used to compute the NDVI vegetation index.

Unfourtunatly, the code does not align the images properly, so it needs to be improved.

```
In [11]: ##Preamble
         %matplotlib inline
         import cv2
         import numpy as np
         import matplotlib.pyplot as plt
         import os
         import glob
         import traceback
         import sys
         from PIL import Image, ImageFilter
         import PIL
         import matplotlib.pyplot as plt
         import datetime
         now = datetime.datetime.now()
         print(now)
2018-06-10 23:11:09.545761
In [12]: ##Setting directory
         dir_set='/tidchile/collaborative/udd/ids/agro/AGRIFRUT_10-02/MICASENSE/0000SET/000'
         num_set=dir_set[-2:]
         filenames=glob.glob(dir_set+'/*.tif')
         filenamesBLUE=[]
         filenamesGREEN=[]
         filenamesRED=[]
```

```
filenamesIR=[]
         ##Listing blue images
         for i in range(len(filenames)):
             if filenames[i][83] == '1':
                 filenamesBLUE.append(filenames[i])
         filenamesBLUE.sort()
         filenamesBLUE
Out[12]: ['/tidchile/collaborative/udd/ids/agro/AGRIFRUT_10-02/MICASENSE/0000SET/000/IMG_0000_1.
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In [13]: ##Listing red images
         filenamesRED=[]
         for i in range(len(filenames)):
             if filenames[i][83] == '3':
                 filenamesRED.append(filenames[i])
         filenamesRED.sort()
         filenamesRED
Out[13]: ['/tidchile/collaborative/udd/ids/agro/AGRIFRUT_10-02/MICASENSE/0000SET/000/IMG_0000_3.
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In [14]: ##Listing near infrarred images
         filenamesIR=[]
         for i in range(len(filenames)):
             if filenames[i][83] == '4':
                 filenamesIR.append(filenames[i])
         filenamesIR.sort()
```

filenamesIR

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In [15]: ##Listing rededge images
         filenamesREDGE=[]
         for i in range(len(filenames)):
             if filenames[i][83] == '5':
                 filenamesREDGE.append(filenames[i])
         filenamesREDGE.sort()
         filenamesREDGE
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In [16]: ##Creating folder to save aligned images
         if not os.path.exists(dir_set+'_IRR_ALIGNED/'):
             os.makedirs(dir_set+'_IRR_ALIGNED/')
In [17]: # Define motion model
         warp_mode = cv2.MOTION_EUCLIDEAN #(Options: MOTION_TRANSLATION, MOTION_EUCLIDEAN, MOTION
         # Set the warp matrix to identity.
         if warp_mode == cv2.MOTION_HOMOGRAPHY:
             warp_matrix = np.eye(3, 3, dtype=np.float32)
         else:
             warp_matrix = np.eye(2, 3, dtype=np.float32)
In [18]: # Set the stopping criteria for the algorithm.
         criteria = (cv2.TERM_CRITERIA_EPS | cv2.TERM_CRITERIA_COUNT, 100000, 1e-5)
In [19]: dir_irr=dir_set+'_IRR_ALIGNED/'
         print(dir_irr)
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In [20]: ##Aligning images and saving as .JPG
         #Creating log file. List images which were not aligned
         log = open(dir_irr + "error_align.log", "w")
         for i in range(len(filenamesRED)):
             try:
                 print("Processing: " + filenamesRED[i][74:82])
                               = cv2.imread(filenamesRED[i],0);
                 im_red
                 im_ir
                                = cv2.imread(filenamesIR[i],0);
                               = cv2.imread(filenamesREDGE[i],0);
                 im_redge
                 sz = im_red.shape
                 print (sz)
                 height = int(sz[0])
                 width = sz[1]
                 im_aligned = np.zeros((height, width, 3), dtype=np.uint8)
                 #Red
                 (cc, warp_matrix) = cv2.findTransformECC (im_redge[:,:], im_red[:,:],warp_matri
                 im_aligned[:,:,2] = cv2.warpAffine(im_red[:,:], warp_matrix, (width, height), f
                 #Ir
                 (cc, warp_matrix) = cv2.findTransformECC (im_redge[:,:], im_ir[:,:],warp_matrix
                 im_aligned[:,:,1] = cv2.warpAffine(im_ir[:,:], warp_matrix, (width, height), fl
                 cv2.imwrite(dir_irr + filenamesRED[i][74:82]+'_IRR.JPG',im_aligned)
             except Exception:
                 print("Error processing: " + filenamesRED[i][74:82])
                 log.write("Error processing: " + filenamesRED[i][74:82] + '\n')
                 continue
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