NGTDM

May 5, 2016

```
In [13]: from ngtdm import Ngtdm
         texture1 = np.array(Image.open('../images/texture1.tiff').convert('L'))
         texture2 = np.array(Image.open('.../images/texture2.tiff').convert('L'))
         texture3 = np.array(Image.open('../images/texture3.tiff').convert('L'))
         texture4 = np.array(Image.open('.../images/texture4.tiff').convert('L'))
         ngtdmt1 = Ngtdm(texture1, 1)
         ngtdmt2 = Ngtdm(texture2, 1)
         ngtdmt3 = Ngtdm(texture3, 1)
         ngtdmt4 = Ngtdm(texture4, 1)
In [14]: ax = plt.subplot('221')
         ax.set_e("Texture 1")
         ax.imshow(texture1, 'gray')
         ax.axis('off')
         ax = plt.subplot('222')
         ax.set_title("Texture 2")
         ax.imshow(texture2, 'gray')
         ax.axis('off')
         ax = plt.subplot('223')
         ax.set_title("Texture 3")
         ax.imshow(texture3, 'gray')
         ax.axis('off')
         ax = plt.subplot('224')
         ax.set_title("Texture 4")
         ax.imshow(texture4, 'gray')
         ax.axis('off')
         plt.show()
         print 'Texture1'
         for x in ngtdmt1.features.items():
             print x
         print '\n'
         print 'Texture2'
         for x in ngtdmt2.features.items():
             print x
         print '\n'
```

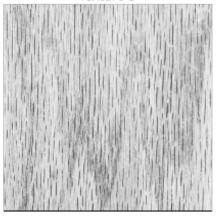
```
print 'Texture3'
for x in ngtdmt3.features.items():
    print x
print '\n'

print 'Texture4'
for x in ngtdmt4.features.items():
    print x
```

Texture 1



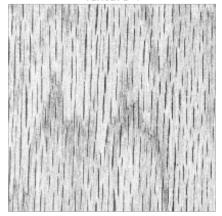
Texture 3



Texture 2



Texture 4



Texture1

('bus', 0.51349854635111392) ('cos', 5.0210212555751133e-05) ('com', 249487.50944272042) ('str', 1.1490261823812609) ('con', 0.99020492528647075)

Texture2

('bus', 2.0305560409043881)

('cos', 2.3510052608692956e-05) ('com', 332120.98104025185) ('str', 0.70977376489841593)

('con', 9.3419655180692427)

Texture3

('bus', 0.71815803958122704) ('cos', 3.4917547303011598e-05) ('com', 123617.41969440867) ('str', 0.68861151969198087) ('con', 0.46583780071228659)

Texture4

('bus', 1.6593883292422487) ('cos', 1.2208067602409651e-05) ('com', 69027.649166470888) ('str', 0.31771486963032086) ('con', 0.20553520628747374)