

无需降级scipy的情况下解决AttributeError: module 'scipy.misc' has no attribute 'imread', imresize, imsave等问题

原创

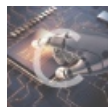
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2 篇文章 0 订阅

订阅专栏

无需降级scipy的情况下解决AttributeError: module 'scipy.misc' has no attribute 'imread',
AttributeError: module 'scipy.misc' has no attribute 'imresize',
AttributeError: module 'scipy.misc' has no attribute 'imsave' 问题

imread, imresize, imsave

最近遇到如下三个错误

AttributeError: module 'scipy.misc' has no attribute 'imread',

AttributeError: module 'scipy.misc' has no attribute 'imresize',

AttributeError: module 'scipy.misc' has no attribute 'imsave'.

原因是scipy在新版本中misc库中弃用了一部函数, 其中就包括imread, imresize和imsave。

在很多回答中都提到了降低scipy的版本, 但是觉得这种解决方法很不爽, 官方弃用这些函数肯定有他的道理, 不能遇到问题就总想着降版本。

AttributeError: module 'scipy.misc' has no attribute 'imread'的解决方法

代码如下

```
from scipy import misc
img = misc.imread(image_path)
```

错误如下

```
Traceback (most recent call last):
  File "Make_aligndata_git.py", line 57, in <module>
    img = misc.imread(image_path)
AttributeError: module 'scipy.misc' has no attribute 'imread'
```

修改如下

```
import imageio
img = imageio.imread(image_path)
```

AttributeError: module 'scipy.misc' has no attribute 'imresize'的解决方法

代码如下

```
from scipy import misc

scaled_temp = misc.imresize(cropped_temp, (image_size, image_size), interp='bilinear')
```

错误如下

```
Traceback (most recent call last):
  File "Make_aligndata_git.py", line 98, in <module>
    scaled_temp = misc.imresize(cropped_temp, (image_size, image_size), interp='bilinear')
AttributeError: module 'scipy.misc' has no attribute 'imresize'
```

修改如下

```
from skimage.transform import resize
scaled_temp = resize(cropped_temp, output_shape=(image_size, image_size))
```

AttributeError: module 'scipy.misc' has no attribute 'imread'的解决方法

代码如下

```
from scipy import misc
misc.imsave(output_filename, scaled_temp)
```

错误如下

```
Traceback (most recent call last):
  File "Make_aligndata_git.py", line 104, in <module>
    misc.imsave(output_filename, scaled_temp)
AttributeError: module 'scipy.misc' has no attribute 'imsave'
```

修改如下

```
import imageio
imageio.imwrite(output_filename, scaled_temp)
```

那么问题是scipy在新版本的misc库中为什么要弃用这些函数呢呢，我也不知道，这个misc是miscellaneous缩写（杂项的意思）

Miscellaneous routines (scipy.misc)
Various utilities that don't have another home.

意思就是不知道放哪的函数都放这里了。

Deprecated functions:

<code>bytescale(*args, **kwargs)</code>	<code>bytescale</code> is deprecated! <code>bytescale</code> is deprecated in SciPy 1.0.0, and will be removed in 1.2.0.
<code>fromimage(*args, **kwargs)</code>	<code>fromimage</code> is deprecated! <code>fromimage</code> is deprecated in SciPy 1.0.0.
<code>imfilter(*args, **kwargs)</code>	<code>imfilter</code> is deprecated! <code>imfilter</code> is deprecated in SciPy 1.0.0, and will be removed in 1.2.0.
<code>imread(*args, **kwargs)</code>	<code>imread</code> is deprecated! <code>imread</code> is deprecated in SciPy 1.0.0, and will be removed in 1.2.0.
<code>imresize(*args, **kwargs)</code>	<code>imresize</code> is deprecated! <code>imresize</code> is deprecated in SciPy 1.0.0, and will be removed in 1.2.0.
<code>imrotate(*args, **kwargs)</code>	<code>imrotate</code> is deprecated! <code>imrotate</code> is deprecated in SciPy 1.0.0, and will be removed in 1.2.0.
<code>imsave(*args, **kwargs)</code>	<code>imsave</code> is deprecated! <code>imsave</code> is deprecated in SciPy 1.0.0, and will be removed in 1.2.0.
<code>imshow(*args, **kwargs)</code>	<code>imshow</code> is deprecated! <code>imshow</code> is deprecated in SciPy 1.0.0, and will be removed in 1.2.0.
<code>toimage(*args, **kwargs)</code>	<code>toimage</code> is deprecated! <code>toimage</code> is deprecated in SciPy 1.0.0, and will be removed in 1.2.0.

我们可以看到很多和cv相关的函数都被弃用了

我猜大概可能是因为想要使用这些函数必须安装Python Imaging Library (PIL) 库才可以，scipy的开发者觉得这不符合他们性格，可能就给弃用了...

以后直接使用imageio库下的函数就可以了

imageio的API

总之就一点，不要一遇到问题就想着降版本了，这个方法太傻了