

```
In [3]: runfile('/Users/chris/Desktop/Chris/大三下春夏学期/4 综合课程设
计/IST/main_tf.py', wdir='/Users/chris/Desktop/Chris/大三下春夏学期/4 综合课
程设计/IST')
2021-05-27 00:18:15
/Users/chris/Desktop/Chris/大三下春夏学期/4 综合课程设计/IST/main_tf.py:156:
DeprecationWarning:      `imread` is deprecated!
  `imread` is deprecated in SciPy 1.0.0, and will be removed in 1.2.0.
  Use ``imageio.imread`` instead.
  image = scipy.misc.imread(path)
/Users/chris/Desktop/Chris/大三下春夏学期/4 综合课程设计/IST/main_tf.py:157:
DeprecationWarning:      `imresize` is deprecated!
  `imresize` is deprecated in SciPy 1.0.0, and will be removed in
1.3.0.
  Use Pillow instead: ``numpy.array(Image.fromarray(arr).resize())``.
  image = scipy.misc.imresize(image, (IMAGE_H, IMAGE_W))
2021-05-27 00:19:03
Iteration 0
Cost: 312425100000.0
/Users/chris/Desktop/Chris/大三下春夏学期/4 综合课程设计/IST/main_tf.py:167:
DeprecationWarning:      `imsave` is deprecated!
  `imsave` is deprecated in SciPy 1.0.0, and will be removed in 1.2.0.
  Use ``imageio.imwrite`` instead.
  scipy.misc.imsave(path, image)
2021-05-27 00:34:05
Iteration 50
Cost: 10523096000.0
2021-05-27 00:49:12
Iteration 100
Cost: 4242542000.0
2021-05-27 01:04:53
Iteration 150
Cost: 2533924900.0
2021-05-27 01:19:59
Iteration 200
Cost: 1700077700.0
2021-05-27 01:35:33
Iteration 250
Cost: 1227209500.0
2021-05-27 01:50:46
Iteration 300
Cost: 932466560.0
2021-05-27 02:05:50
Iteration 350
Cost: 733759800.0
2021-05-27 02:21:42
Iteration 400
Cost: 592092100.0
2021-05-27 02:37:48
Iteration 450
Cost: 487223400.0
2021-05-27 02:53:46
Iteration 500
```

```
Cost: 407133660.0
2021-05-27 03:09:51
Iteration 550
Cost: 344946270.0
2021-05-27 03:26:24
Iteration 600
Cost: 295823200.0
2021-05-27 03:42:55
Iteration 650
Cost: 256389760.0
2021-05-27 03:59:01
Iteration 700
Cost: 224463330.0
2021-05-27 04:14:49
Iteration 750
Cost: 198369700.0
2021-05-27 04:30:43
Iteration 800
Cost: 176784910.0
2021-05-27 04:46:46
Iteration 850
Cost: 158830190.0
2021-05-27 05:02:44
Iteration 900
Cost: 144490580.0
2021-05-27 05:18:45
Iteration 950
Cost: 136479000.0
```

In [4]: