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1  #! /usr/bin/env python
2  # -*- coding: utf-8 -*-
3
4  import pylab
5  from config import *
6  def draw(points):
7      keys = points.keys()
8      values = points.values()
9      dim = len(keys)
10     w = 0.5
11     dimw = w / dim
12     f1 = pylab.figure()
13     pylab.plot(keys, values, 'g--')
14     pylab.bar(keys, values, dimw, bottom=0.001)
15     pylab.plot(keys, values, 'ro',)
16     pylab.grid()
17     pylab.legend(loc='best')
18     pylab.xlabel(u" PSNR", fontsize=16)
19     pylab.ylabel(ur" субъективное качество", fontsize=16)
20     pylab.title(u"PSNR - субъективное качество")
21     f1.savefig(GUI['picture-file'])
22     if(True == GUI['show']):
23         pylab.show()
24 if(__name__ == "__main__"):
25     impartial = {
26         'cinepak' : (37.3228044228198 + 40.0566925274575 + 36.022758718987) / 3,
27         'indeo5' : (33.1420663954279 + 33.7413058522762 + 30.4368685693292) / 3,
28         'divx' : (32.5942752164356 + 36.3399041397657 + 30.3073339805564) / 3
29     }
30     subjective = {
31         'cinepak' : 4.16,
32         'indeo5' : 3.5,
33         'divx' : 2.6
34     }
35     impartial_avg = {
36         'cinepak' : 40.0,
37         'indeo5' : 35.0,
38         'divx' : 30.0
39     }
40     draw({
41         impartial['cinepak'] : subjective['cinepak'],
42         impartial['indeo5'] : subjective['indeo5'],
43         impartial['divx'] : subjective['divx']
44     })
45     draw({
46         impartial_avg['cinepak'] : subjective['cinepak'],
47         impartial_avg['indeo5'] : subjective['indeo5'],
48         impartial_avg['divx'] : subjective['divx']
49     })
50

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