pixle substraction

step	error	match	match	avg time	sec/
size	(/45)	(/45)	(%)	(sec)	match (s)
1	6	39	86,67%	6,724	0,1724
2	7	38	84,44%	3,571	0,0940
3	5	40	88,89%	2,433	0,0608
4	8	37	82,22%	1,906	0,0515
5	6	39	86,67%	1,582	0,0406
6	2	43	95,56%	1,357	0,0316
7	5	40	88,89%	1,215	0,0304
8	7	38	84,44%	1,084	0,0285
9	6	39	86,67%	1,001	0,0257
10	6	39	86,67%	0,938	0,0241
11	9	36	80,00%	0,872	0,0242
12	7	38	84,44%	0,828	0,0218

step=6 (offset)

step	error	match	match
offset	(/45)	(/45)	(%)
0	2	43	95,56%
1	5	40	88,89%
2	7	38	84,44%
3	7	38	84,44%
4	7	38	84,44%
5	8	37	82,22%
6	4	41	91,11%

Step = 6 change start-offset from 0 thru 6

## extrapolation

step	error	match	match	avg time	sec /
size	(/45)	(/45)	(%)	(sec)	match (s)
1	7	38	84,44%	29,116	0,766
2	7	38	84,44%		
3	6	39	86,67%		
4	5	40	88,89%		
5	8	37	82,22%	6,036	0,163
6	8	37	82,22%	5,061	0,137

opmerking: 1 a 2 waar maar 1 tile verkeerd was meestal bij fotograaf Foto 5 is de meest voorkomende fout

scipy.spatial.distance

type	error	match	match	avg time	sec/
distance	(/45)	(/45)	(%)	(sec)	match (s)
braycurtis	8	37	82,22%	2,209	0,0597
canberra	8	37	82,22%	4,101	0,1108
chebyshev	14	31	68,89%	2,564	0,0827
cityblock	6	39	86,67%	1,79	0,0459
correlation	5	40	88,89%	7,595	0,1899
cosine	11	34	75,56%	5,38	0,1582
euclidean	8	37	82,22%	2,257	0,0610
minkowski	8	37	82,22%	2,207	0,0596
sqeuclidean	16	29	64,44%	1,761	0,0607
hamming	11	34	75,56%	2,742	0,0806

Step =1

## correlation

step	error	match	match	avg time	sec/
size	(/45)	(/45)	(%)	(sec)	match (s)
1	5	40	88,89%	7,595	0,1899
2	4	41	91,11%	7,435	0,1813
3	6	39	86,67%	7,418	0,1902
4	5	40	88,89%	7,31	0,1828
5	9	36	80,00%	7,322	0,2034
6	9	36	80,00%		
7	8	37	82,22%		
8	12	33	73,33%		

cityblock

step	error	match	match	avg time	sec /
size	(/45)	(/45)	(%)	(sec)	match (s)
1	6	39	86,67%	1,79	0,0459
2	7	38	84,44%	1,736	0,0457
3	5	40	88,89%	1,725	0,0431
4	8	37	82,22%	1,723	0,0466
5	6	39	86,67%	1,71	0,0438
6	2	43	95,56%	1,716	0,0399
7	6	39	86,67%	1,716	0,0440
8	7	38	84,44%	1,704	0,0448

edge convolution

		error	match	match	avg time	sec /
kernel1	kernel2	(/45)	(/45)	(%)	(sec)	match (s)
	[1,1,1]	4	41	91,11%	8,732	0,2130
[3,0,-3]	[8,8,8]	4	41	91,11%		
[3,0,-3]	[7,10,7]	4	41	91,11%		
[6,0,-6]	[1,22,1]	6	39	86,67%		
[6,1,0,-1,-6]	[2,4,6,4,2]	4	41	91,11%	9,518	0,2321
[6,1,0,-1,-6]	[6,24,39,24,6]	13	32	71,11%		
[1,0,-3,0,1]	[0,2,3,2,0]	4	41	91,11%		
[4,12,0,-12,-4]	[ 2,12,19,12,2]	9	36	80,00%		
[2,6,1,0,-1,-6,-2]	[1,2,4,6,4,2,1]	4	41	91,11%	9,958	0,2429
[2,6,1,0,-1,-6,-2]		11	34	75,56%	9,156	0,2693

	and a strategion contention convolution co							
	SUDSI	extral	olation cityblo	Collei	hamm	Counc	total	
2x2_00	1	1	1	1	1	1	6	
2x2_01	0	0	0	1	1	0	2	
2x2_02	1	1	1	1	1	1	6	
2x2_03	1	1	1	1	1	1	6	
2x2 04	1	1	1	1	1	1	6	
2x2 <sup>-</sup> 05	1	1	1	1	1	1	6	
2x2 <sup>-</sup> 06	1	1	1	1	1	1	6	
2x2 <sup>-</sup> 07	1	1	1	1	1	1	6	
2x2 <sup>-</sup> 08	1	1	1	1	1	1	6	
2x3 00	1	1	1	1	1	1	6	
2x3 01	1	1	1	1	1	1	6	
2x3 02	1	1	1	1	1	1	6	
2x3_03	1	1	1	1	1	1	6	
2x3_04	1	1	1	1	1	1	6	
2x3_04	0	0	0	1	1	1	3	
2x3_05	1	1	1	1	1	1	6	
2x3_00 2x3_07	1	1	1	1	1	1	6	
2x3_07 2x3_08	1	1	1	1	1	1	6	
3x3_00	1	1	1	1	1	1	6	
3x3_00 3x3_01	1	0	1	0	0	1	3	
	1	1	1	1	1	1	6	
3x3_02 3x3_03	0	1	0	0	0	0	1	
	1		1					
3x3_04		1		1	1	1	6	
3x3_05	0	0	0	1	1	1	3	
3x3_06	1	1	1	1	1	1	6	
3x3_07	1	1	1	1	1	1	6	
3x3_08	1	1	1	1	1	1	6	
4x4_00	1	1	1	1	0	1	5	
4x4_01	0	0,1	0	0	0	0	0	
4x4_02	1	1	1	1	1	1	6	
4x4_03	1	1	1	0	0	1	4	
4x4_04	1	1	1	1	1	1	6	
4x4_05	1	1	1	1	1	1	6	
4x4_06	1	1	1	1	0,1	1	5	
4x4_07	1	1	1	1	1	1	6	
4x4_08	1	1	1	1	1	1	6	
5x5_00	0	0	0	0	0	0	0	
5x5_01	1	0,1	1	1	0	1	4	
5x5_02	1	1	1	1	0	1	5	
5x5_03	1	1	1	1	0	1	5 5 6	
5x5_04	1	1	1	1	1	1	6	
5x5_05	1	1	1	1	1	1	6 6	
5x5_06	1	1	1	1	1	1	6	
5x5_07	1	1	1	1	1	1	6	
5x5_08	1	1	1	1	0,1	1	5	
solutions	39	38	39	40	34	41	43	
%	87%	84%	87%	89%	76%	91%	96%	
time		29,12	1,79	7,595		8,732		
match/s	0,172	0,766	0,046	0,19	0,081	0,213		

imade		ุ่ หรูปั	action extrap	olation cityblo	correla	nammi hammi	Cound	ution
imals		SUDE	extre	citylo	COLLE	hallin	Colle	total
0	2x2_00	1	1	1	1	1	1	6
0	2x3_00	1	1	1	1	1	1	6
0	3x3_00	1	1	1	1	1	1	6
0	4x4 00	1	1	1	1	0	1	5
0	5x5 00	0	0	0	0	0	0	0
1	2x2_01	0	0	0	1	1	0	2
1	2x3_01	1	1	1	1	1	1	6
1	3x3_01	1	0	1	0	0	1	3
1	4x4 01	0	0,1	0	0	0	0	0
1	5x5 01	1	0,1	1	1	0	1	4
2	2x2_02	1	1	1	1	1	1	6
2	2x3_02	1	1	1	1	1	1	6
2 2	3x3_02	1	1	1	1	1	1	6
2	4x4 02	1	1	1	1	1	1	6
2	5x5 02	1	1	1	1	0	1	5
3	2x2 03	1	1	1	1	1	1	6
3	2x3_03	1 1	1	1	1	1	1	6
3	3x3_03	0	1	0	0	0	0	1
3	4x4 03	1	1	1	0	0	1	4
3	5x5_03	1	1	1	1	0	1	5
4	2x2 04	1	1	1	1	1	1	6
4	2x3_04	1	1	1	1	1	1	6
4	3x3_04	1	1	1	1	1	1	6
4	4x4 04	1	1	1	1	1	1	6
4	5x5 04	1	1	1	1	1	1	6
5	2x2 05	1	1	1	1	1	1	6
5	2x3_05	0	0	0	1	1	1	3
5	3x3_05	0	0	0	1	1	1	3
5	4x4 05	1	1	1	1	1	1	6
5	5x5 05	1	1	1	1	1	1	6
6	2x2 06	1	1	1	1	1	1	6
6	2x2_00 2x3_06	1	1	1	1	1	1	6
6	3x3 06	1	1	1	1	1	1	6
6	4x4_06	1	1	1	1	0,1	1	5
6	5x5_06	1	1	1	1	1	1	6
7	2x2_07	1	1	1	1	1	1	6
7	2x2_07 2x3_07	1	1	1	1	1	1	6
7	3x3_07	1	1	1	1	1	1	6
7	4x4_07	1	1	1	1	1	1	6
7	5x5 07	1 1	1	1	1	1	1	6
8	2x2_08	1	1	1	1	1	1	6
8	2x2_08 2x3_08	1	1	1	1	1	1	
		1	1	1	1	1	1	6
8	3x3_08	1	1	1	1	1	1	6
8 8	4x4_08		1 1	1	1	0,1	1	6 5
<u>o</u>	5x5_08 solutions	39	38	39	40	34	41	43
	%	87%	36 84%	39 87%	89%	76%	91%	96%
	time		29,12				8,732	3070
	match/s			0,046			0,732	
	maich/S	0,112	0,700	0,040	0,19	0,001	0,213	I