

Matrice de confusion globale sans bruits

	0	1	2	3	4	5
0	87.5	0	0	0	0	0
1	0	100	0	0	0	0
2	0	0	100	0	0	0
3	0	0	0	92.3	0	0
4	0	0	0	0	70.625	0
5	0	6.25	0	0	0	93.75
6	0	0	0	0	10	10
7	0	0	0	0	0	0
8	0	0	0	0	0	0
9	0	7.6914	0	7.69	0	0

Matrice de confusion détaillée sur des différentes résolutions

Digit 0	0	1	2	3	4	5
2x2	37.5	37.5	0	0	0	25
3x2	12.5	37.5	0	0	12.5	0
3x3	31.25	6.25	0	0	0	12.5
4x3	50	0	0	0	0	0
4x4	37.5	0	0	0	20.83333333	0
5x2	16.6667	8.3333	0	0	0	12.5
5x4	54.1667	0	0	4.17	4.16666667	0
5x5	76.5625	0	0	0	0	0
6x3	75	0	0	0	0	0
6x4	62.5	0	0	0	12.5	0
6x5	71.875	0	0	0	7.8125	0
6x6	59.375	0	0	0	0	0
7x7	79.4643	0	0	0	0	0
8x3	87.5	0	0	0	0	0
8x4	37.5	0	0	0	18.75	0
8x5	100	0	0	0	0	0
8x6	69.6429	0	0	0	5.35714286	0
8x8	87.5	0	0	0	0	0
9x6	75	0	0	0	0	0
9x7	84.7826	0	0	0	0	0
9x9	87.5	0	0	0	0	0
10x4	12.5	0	0	0	25	0

test-multi

10x5	100	0	0	0	0	0
10x8	75	0	0	0	0	0
10x10	87.5	0	0	0	0	0
11x7	100	0	0	0	0	0

Digit 1	0	1	2	3	4	5
2x2	29.4118	47.059	0	0	0	23.5294118
3x2	0	94.118	0	0	0	5.88235294
3x3	0	94.118	0	0	0	2.94117647
4x3	0	100	0	0	0	0
4x4	0	98.039	0	0	0	0
5x2	0	31.373	0	11.8	0	5.88235294
5x4	0	94.118	0	0	1.96078431	0
5x5	0	94.485	0	0	0	0
6x3	0	97.059	0	0	0	0
6x4	0	94.118	0	0	0	0
6x5	0	96.324	0	0	0	0
6x6	0	98.529	0	0	0	0
7x7	0	100	0	0	0	0
8x3	0	94.118	0	0	0	0
8x4	0	94.118	0	0	0	0
8x5	0	100	0	0	0	0
8x6	0	100	0	0	0	0
8x8	0	100	0	0	0	0
9x6	0	100	0	0	0	0
9x7	0	100	0	0	0	0
9x9	0	100	0	0	0	0
10x4	0	94.118	0	0	0	0
10x5	0	100	0	0	0	0
10x8	0	100	0	0	0	0
10x10	0	100	0	0	0	0
11x7	0	100	0	0	0	0

Digit 2	0	1	2	3	4	5
2x2	0	0	33.3333333	0	0	0
3x2	0	5.5556	44.4444444	22.2	0	0
3x3	0	22.222	36.1111111	8.33	0	2.77777778
4x3	0	0	83.3333333	0	0	0
4x4	0	0	88.8888889	1.85	0	0
5x2	0	1.8519	62.962963	11.1	0	0
5x4	0	0	79.6296296	3.7	0	0
5x5	0	0	77.7777778	10.8	0	0
6x3	0	0	94.4444444	2.78	0	0
6x4	0	0	100	0	0	0
6x5	0	0	92.3611111	5.56	0	0
6x6	0	0	95.8333333	4.17	0	0

test-multi

7x7	0	0	96.031746	1.98	0	0
8x3	0	0	88.8888889	5.56	0	0
8x4	0	0	94.4444444	5.56	0	0
8x5	0	0	100	0	0	0
8x6	0	0	97.6190476	2.38	0	0
8x8	0	0	100	0	0	0
9x6	0	0	100	0	0	0
9x7	0	0	100	0	0	0
9x9	0	0	94.4444444	0	0	0
10x4	0	0	94.4444444	5.56	0	0
10x5	0	0	100	0	0	0
10x8	0	0	100	0	0	0
10x10	0	0	100	0	0	0
11x7	0	0	100	0	0	0

Digit 3	0	1	2	3	4	5
2x2	0	84.615	0	7.69	0	0
3x2	0	0	0	92.3	0	0
3x3	0	11.538	7.69230769	61.5	0	0
4x3	0	0	0	84.6	0	0
4x4	0	0	5.12820513	84.6	0	0
5x2	0	0	0	84.6	0	0
5x4	0	0	0	89.7	0	0
5x5	0	0	0	92.3	0	0
6x3	0	0	0	92.3	0	0
6x4	0	0	0	92.3	0	0
6x5	0	0	0	92.3	0	0
6x6	0	0	0	92.3	0	0
7x7	0	0	0	92.3	0	0
8x3	0	0	0	92.3	0	0
8x4	0	0	0	92.3	0	0
8x5	0	0	0	92.3	0	0
8x6	0	0	0	92.3	0	0
8x8	0	0	0	92.3	0	0
9x6	0	0	0	92.3	0	0
9x7	0	0	0	92.3	0	0
9x9	0	0	0	92.3	0	0
10x4	0	0	0	92.3	0	0
10x5	0	0	0	92.3	0	0
10x8	0	0	0	92.3	0	0
10x10	0	0	0	92.3	0	0
11x7	0	0	0	92.3	0	0

Digit 4	0	1	2	3	4	5
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test-multi

2x2	5.88235	23.529	5.88235294	0	0	35.2941176
3x2	0	0	0	0	64.7058824	0
3x3	0	2.9412	0	0	26.4705882	0
4x3	0	0	0	0	82.3529412	0
4x4	0	3.9216	0	0	74.5098039	0
5x2	0	0	0	0	52.9411765	0
5x4	0	1.9608	0	0	68.627451	0
5x5	0	0	0	0	65.0735294	0
6x3	0	0	0	0	76.4705882	0
6x4	0	0	0	0	76.4705882	0
6x5	0	0	0	0	68.3823529	0
6x6	0	0	0	0	79.4117647	0
7x7	0	0	0	0	74.3697479	0
8x3	0	0	0	0	64.7058824	0
8x4	0	0	0	0	67.6470588	0
8x5	0	0	0	0	64.7058824	0
8x6	0	0	0	0	73.1092437	0
8x8	0	0	0	0	79.028133	0
9x6	0	0	0	0	64.7058824	0
9x7	0	0	0	0	70.5882353	0
9x9	0	0	0	0	70.5882353	0
10x4	0	0	0	0	76.4705882	0
10x5	0	0	0	0	78.9915966	0
10x8	0	0	0	0	70.5882353	0
10x10	0	0	0	0	70.5882353	0
11x7	0	0	0	0	64.7058824	0

Digit 5	0	1	2	3	4	5
2x2	0	6.25	0	0	0	93.75
3x2	0	25	0	0	0	68.75
3x3	0	15.625	0	0	0	53.125
4x3	0	6.25	0	0	0	93.75
4x4	0	0	0	0	0	100
5x2	0	2.0833	0	0	0	97.9166667
5x4	0	2.0833	0	0	0	93.75
5x5	0	0.3906	0	0	0	93.75
6x3	0	3.125	0	0	0	93.75
6x4	0	0	0	0	0	93.75
6x5	0	2.3438	0	0	0	93.75
6x6	0	4.6875	0	0	0	93.75
7x7	0	6.25	0	0	0	93.75
8x3	0	6.25	0	0	0	87.5
8x4	0	3.125	0	0	0	93.75
8x5	0	6.25	0	0	0	93.75
8x6	0	6.25	0	0	0	93.75
8x8	0	6.25	0	0	0	93.75
9x6	0	6.25	0	0	0	93.75

test-multi

9x7	0	6.25	0	0	0	93.75
9x9	0	6.25	0	0	0	93.75
10x4	0	6.25	0	0	0	93.75
10x5	0	6.25	0	0	0	93.75
10x8	0	6.25	0	0	0	93.75
10x10	0	6.25	0	0	0	93.75
11x7	0	6.25	0	0	0	93.75

Digit 6	0	1	2	3	4	5
2x2	20	0	0	0	0	80
3x2	20	10	0	0	0	20
3x3	0	15	0	0	5	25
4x3	0	0	0	0	10	20
4x4	0	26.667	0	0	13.3333333	10
5x2	0	3.3333	0	0	0	26.6666667
5x4	0	23.333	0	0	13.3333333	10
5x5	0	0	0	0	0	10
6x3	0	0	0	0	5	25
6x4	0	10	0	0	0	10
6x5	0	0	0	0	0	10
6x6	0	0	0	0	0	10
7x7	0	0	0	0	6.42857143	10
8x3	10	0	0	0	0	30
8x4	0	10	0	0	5	10
8x5	0	0	0	0	0	10
8x6	0	0	0	0	5.71428571	10
8x8	0	0	0	0	10	10
9x6	0	0	0	0	10	10
9x7	0	0	0	0	6.08695652	10
9x9	0	0	0	0	10	10
10x4	0	20	0	0	10	10
10x5	0	0	0	0	7.14285714	10
10x8	0	0	0	0	10	10
10x10	0	0	0	0	10	10
11x7	0	0	0	0	0	10

Digit 7	0	1	2	3	4	5
2x2	0	57.143	0	0	0	0
3x2	0	14.286	14.2857143	0	0	0
3x3	0	28.571	0	7.14	0	0
4x3	0	0	42.8571429	0	0	0
4x4	0	0	19.047619	0	0	0
5x2	0	9.5238	33.3333333	9.52	0	0
5x4	0	0	0	9.52	0	0
5x5	0	0	13.3928571	13.4	0	0
6x3	0	0	14.2857143	0	0	0

test-multi

6x4	0	0	0	0	0	0
6x5	0	0	8.92857143	0	0	0
6x6	0	0	3.57142857	0	0	0
7x7	0	0	0	0	0	0
8x3	0	0	14.2857143	0	0	0
8x4	0	0	7.14285714	0	0	0
8x5	0	0	0	0	0	0
8x6	0	0	0	0	0	0
8x8	0	0	0	0	0	0
9x6	0	0	0	0	0	0
9x7	0	0	0	0	0	0
9x9	0	0	0	0	0	0
10x4	0	0	0	0	0	0
10x5	0	0	0	0	0	0
10x8	0	0	0	0	0	0
10x10	0	0	0	0	0	0
11x7	0	0	0	0	0	0

Digit 8	0	1	2	3	4	5
2x2	20	40	0	0	0	40
3x2	13.3333	26.667	0	0	0	0
3x3	0	13.333	0	0	0	0
4x3	0	0	0	0	0	0
4x4	0	6.6667	0	0	0	0
5x2	17.7778	6.6667	0	0	4.44444444	6.66666667
5x4	4.44444	8.8889	0	0	2.22222222	0
5x5	6.25	12.5	0	0	0	0
6x3	3.33333	0	0	6.67	0	0
6x4	6.66667	6.6667	0	0	0	0
6x5	0	8.3333	0	0	0	0
6x6	0	1.6667	0	0	0	0
7x7	0	0	0	0	0	0
8x3	6.66667	0	0	0	0	0
8x4	3.33333	16.667	0	0	0	0
8x5	0	0	0	0	0	0
8x6	0	0	0	0	0	0
8x8	0	0	0	0	0	0
9x6	0	0	0	0	0	0
9x7	0	0	0	0	0	0
9x9	0	0	0	0	0	0
10x4	0	26.667	0	0	0	0
10x5	0	0	0	0	0	0
10x8	0	0	0	0	0	0
10x10	0	0	0	0	0	0
11x7	0	0	0	0	0	0

Digit 9	0	1	2	3	4	5
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test-multi

2x2	38.4615	30.769	0	0	0	30.7692308
3x2	0	53.846	0	15.4	0	0
3x3	0	30.769	0	7.69	0	7.69230769
4x3	0	7.6923	0	0	0	23.0769231
4x4	0	12.821	0	5.13	0	23.0769231
5x2	2.5641	17.949	0	10.3	0	12.8205128
5x4	0	12.821	0	2.56	0	15.3846154
5x5	0	7.6923	0	0	0	7.21153846
6x3	0	3.8462	0	0	0	11.5384615
6x4	0	7.6923	0	0	0	7.69230769
6x5	0	4.8077	0	0	0	4.80769231
6x6	0	7.6923	0	5.77	0	0
7x7	0	7.6923	0	7.69	0	0
8x3	0	0	0	0	0	23.0769231
8x4	0	19.231	0	0	0	11.5384615
8x5	0	7.6923	0	7.69	0	0
8x6	0	7.6923	0	7.69	0	0
8x8	0	7.6923	0	7.69	0	0
9x6	0	7.6923	0	7.69	0	0
9x7	0	7.6923	0	7.69	0	0
9x9	0	7.6923	0	7.69	0	0
10x4	0	23.077	0	7.69	0	0
10x5	0	7.6923	0	5.49	0	0
10x8	0	7.6923	0	7.69	0	0
10x10	0	7.6923	0	7.69	0	0
11x7	0	7.6923	0	7.69	0	0

Matrice de confusion détaillée sur des différentes résolutions (base 10)

Digit 0	0	1	2	3	4	5
3x2	5.53906	7.0742	0	0	0.30761719	19.078125
4x3	22.1563	2.7695	0.61523438	0.31	17.234375	3.69335938
6x4	60	3.0762	2.4609375	0.92	3.07617188	3.69335938
8x5	44.2813	0	2.28515625	3.43	2.85546875	2.28515625
9x6	53.625	0.8003	0.53320313	1.87	0	1.86621094
11x7	52.5313	0.5332	0.26660156	4.53	0.26660156	2.1328125

Digit 1	0	1	2	3	4	5
3x2	3.18945	29.266	0	0	11.6328125	5.25390625
4x3	2.25	14.633	0.5625	0.38	32.28125	8.0703125
6x4	13.3203	14.078	1.125	1.5	14.078125	3.37890625

test-multi

8x5	7.31641	28.563	0.69677734	4.53	6.79296875	4.1796875
9x6	20.1719	23.406	1.62695313	9.27	4.2265625	6.5078125
11x7	7.31641	32.531	2.11328125	8.95	3.08984375	5.8515625

Digit 2	0	1	2	3	4	5
3x2	20	31.422	3.07617188	0.66	1.97753906	1.7578125
4x3	11.4219	4.6133	16.046875	2.86	19.78125	2.19726563
6x4	32.75	2.418	27.25	1.76	4.17578125	0.87890625
8x5	12.2422	2.041	32.875	15.9	1.6328125	0.40820313
9x6	15.8047	1.1426	30.46875	17.3	1.71386719	0.57128906
11x7	25.1406	1.1426	31.25	15.8	0.19042969	0

Digit 3	0	1	2	3	4	5
3x2	14.1016	11.789	1.02539063	1.54	3.58984375	16.921875
4x3	14.6094	4.6133	2.30664063	11.8	11.7890625	11.28125
6x4	24.0938	1.5381	7.43359375	20	6.6640625	5.3828125
8x5	15.4766	5.4766	0.95214844	45.5	2.61914063	2.38085938
9x6	22.6719	6	1.33398438	42.2	2	3.5546875
11x7	25.7813	7.332	1.11132813	39.6	0.66699219	0

Digit 4	0	1	2	3	4	5
3x2	4.42969	5.3633	0	0.7	6.29296875	15.609375
4x3	0.69922	1.6309	0.23303223	0.47	31.21875	14.453125
6x4	10.0234	0.9321	0.23303223	0	43.375	0.69921875
8x5	6.92578	1.083	0.64941406	2.6	49.15625	3.24609375
9x6	9.69531	1.0098	0.40405273	3.23	38.1875	3.83984375
11x7	9.5	0.8081	1.4140625	2.22	35.34375	1.21191406

Digit 5	0	1	2	3	4	5
3x2	2.76172	7.3008	0	0	1.38085938	33.53125
4x3	1.97266	0.7891	0	0.59	17.75	27.421875
6x4	11.2422	1.7744	0	0.79	13.8046875	23.46875
8x5	9.15625	4.2109	0.18310547	3.85	2.5625	29.859375
9x6	15.3828	4.2734	0.34179688	2.22	3.24609375	32.96875
11x7	9.91406	4.957	0	2.05	0.17089844	43.40625

Digit 6	0	1	2	3	4	5
3x2	1.37305	7.4141	0.2746582	0.27	0.82421875	14.28125
4x3	2.74609	0	0	0	16.765625	10.984375

test-multi

6x4	14.0156	1.9229	3.02148438	0	17.578125	2.47265625
8x5	14.5391	0.7651	0.25512695	0.77	2.55078125	4.59375
9x6	20	2.8555	0.23803711	3.81	5.23828125	6.42578125
11x7	14.5234	1.666	0.23803711	5	0.71386719	5.7109375

Digit 7	0	1	2	3	4	5
3x2	24.25	31.672	0.29589844	0.3	1.18359375	0.59179688
4x3	11.5391	5.3242	7.69140625	0	20.71875	2.95898438
6x4	35.2188	0.8872	10.953125	3.85	0.59179688	0.29589844
8x5	11.2578	1.373	6.31640625	16.8	6.59375	1.09863281
9x6	22.2969	1.2813	8.4609375	13.3	5.125	0.25634766
11x7	13.8438	1.5381	2.8203125	21.5	0	3.33203125

Digit 8	0	1	2	3	4	5
3x2	10.1641	12.914	0.2746582	0	1.6484375	15.6640625
4x3	13.4609	1.0986	0.82421875	2.47	8.515625	8.515625
6x4	29.9531	3.2969	0.54931641	0.27	9.3359375	4.66796875
8x5	5.86719	2.8066	0.51025391	2.3	3.06054688	3.06054688
9x6	20	1.4277	0.47607422	7.14	0.71386719	9.5234375
11x7	20	2.1426	0	4.29	0.23803711	3.33203125

Digit 9	0	1	2	3	4	5
3x2	6.86719	10.711	0	0.55	1.6484375	18.953125
4x3	11.2578	7.4141	0.54931641	0.82	4.12109375	5.21875
6x4	31.3281	6.3164	1.92285156	1.92	9.609375	1.37304688
8x5	16.8281	4.3359	0	8.67	1.78515625	5.8671875
9x6	30.7188	5.9492	0	10.5	0.71386719	1.90429688
11x7	20.7188	7.1406	0.47607422	8.57	0.71386719	1.19042969

s ajoutés

6	7	8	9
0	0	12.5	0
0	0	0	0
0	0	0	0
0	0	0	7.69140625
29.421875	0	0	0
0	0	0	0
80	0	0	0
0	100	0	0
0	0	100	0
7.69140625	0	7.69140625	69.25

utions (base de données sans bruits ajoutés)

6	7	8	9
0	0	0	0
0	0	37.5	0
18.75	0	25	6.25
25	0	25	0
8.333333333	0	33.33333333	0
16.66666667	4.166666667	25	16.66666667
8.333333333	0	29.16666667	0
11.71875	0	11.71875	0
18.75	0	6.25	0
12.5	0	12.5	0
0	0	7.8125	12.5
21.875	0	9.375	9.375
12.5	0	8.035714286	0
12.5	0	0	0
12.5	0	18.75	12.5
0	0	0	0
12.5	0	12.5	0
7.065217391	0	5.434782609	0
12.5	0	12.5	0
7.608695652	0	7.608695652	0
12.5	0	0	0
12.5	0	25	25

test-multi

0	0	0	0
12.5	0	12.5	0
0	0	12.5	0
0	0	0	0

6	7	8	9
0	0	0	0
0	0	0	0
2.941176471	0	0	0
0	0	0	0
0	0	1.960784314	0
3.921568627	0	3.921568627	43.1372549
0	0	3.921568627	0
0	0	5.514705882	0
0	0	2.941176471	0
0	0	5.882352941	0
0	0	3.676470588	0
1.470588235	0	0	0
0	0	0	0
0	0	5.882352941	0
0	0	5.882352941	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	5.882352941	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

6	7	8	9
0	66.66666667	0	0
0	22.22222222	5.555555556	0
0	30.55555556	0	0
0	16.66666667	0	0
0	9.259259259	0	0
1.851851852	3.703703704	18.51851852	0
0	14.81481481	1.851851852	0
0	11.45833333	0	0
0	2.777777778	0	0
0	0	0	0
0	2.083333333	0	0
0	0	0	0

test-multi

0	1.984126984	0	0
0	5.555555556	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	5.555555556	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

[illegible]

6	7	8	9
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test-multi

17.64705882	0	11.76470588	0	ision global sans bruits ajoutés
17.64705882	0	17.64705882	0	
26.47058824	0	44.11764706	0	
11.76470588	0	5.882352941	0	
15.68627451	0	5.882352941	0	
45.09803922	0	1.960784314	0	
29.41176471	0	0	0	
34.92647059	0	0	0	
20.58823529	0	2.941176471	0	
23.52941176	0	0	0	
31.61764706	0	0	0	
20.58823529	0	0	0	
25.6302521	0	0	0	
35.29411765	0	0	0	
32.35294118	0	0	0	
35.29411765	0	0	0	
26.8907563	0	0	0	
20.97186701	0	0	0	
35.29411765	0	0	0	
29.41176471	0	0	0	
29.41176471	0	0	0	
23.52941176	0	0	0	
21.00840336	0	0	0	
29.41176471	0	0	0	
29.41176471	0	0	0	
35.29411765	0	0	0	

6	7	8	9
0	0	0	0
6.25	0	0	0
0	0	0	31.25
0	0	0	0
0	0	0	0
0	0	0	0
0	0	4.166666667	0
0	0	5.859375	0
0	0	3.125	0
0	0	6.25	0
0	0	3.90625	0
0	0	1.5625	0
0	0	0	0
6.25	0	0	0
0	0	3.125	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

test-multi

0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

6	7	8	9
0	0	0	0
30	0	20	0
15	0	40	0
60	0	10	0
46.66666667	0	3.333333333	0
66.66666667	0	3.333333333	0
53.33333333	0	0	0
80	0	10	0
60	0	10	0
80	0	0	0
80	0	10	0
82.5	0	7.5	0
80	0	3.571428571	0
60	0	0	0
75	0	0	0
90	0	0	0
84.28571429	0	0	0
80	0	0	0
80	0	0	0
83.91304348	0	0	0
80	0	0	0
60	0	0	0
80	0	2.857142857	0
80	0	0	0
80	0	0	0
90	0	0	0

sion global sans bruits ajoutés

6	7	8	9
0	42.85714286	0	0
0	71.42857143	0	0
0	57.14285714	0	7.142857143
0	57.14285714	0	0
0	76.19047619	4.761904762	0
0	38.0952381	9.523809524	0
0	76.19047619	14.28571429	0
0	73.21428571	0	0
0	78.57142857	7.142857143	0

test-multi

0	100	0	0
0	91.07142857	0	0
0	96.42857143	0	0
0	100	0	0
0	85.71428571	0	0
0	92.85714286	0	0
0	100	0	0
0	100	0	0
0	100	0	0
0	100	0	0
0	100	0	0
0	100	0	0
0	100	0	0
0	100	0	0
0	100	0	0
0	100	0	0
0	100	0	0
0	100	0	0
0	100	0	0
0	100	0	0
0	100	0	0

6	7	8	9
0	0	0	0
20	0	40	0
10	0	66.66666667	10
6.666666667	0	93.33333333	0
0	0	82.22222222	11.11111111
6.666666667	0	37.77777778	20
2.222222222	0	71.11111111	11.11111111
0	0	74.58333333	6.666666667
6.666666667	0	70	13.33333333
0	0	86.66666667	0
4.166666667	0	83.33333333	4.166666667
1.666666667	0	96.66666667	0
0	0	100	0
6.666666667	0	60	26.66666667
0	0	76.66666667	3.333333333
0	0	100	0
0	0	96.19047619	3.80952381
0	0	96.23188406	3.768115942
0	0	93.33333333	6.666666667
0	0	95.94202899	4.057971014
0	0	100	0
0	0	73.33333333	0
0	0	93.33333333	6.666666667
0	0	100	0
0	0	100	0
0	0	100	0

6	7	8	9
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test-multi

0	0	0	0
0	0	15.38461538	15.38461538
3.846153846	0	11.53846154	38.46153846
0	7.692307692	7.692307692	53.84615385
0	0	15.38461538	43.58974359
0	0	7.692307692	48.71794872
0	0	10.25641026	58.97435897
7.692307692	0	7.692307692	69.71153846
3.846153846	3.846153846	7.692307692	69.23076923
0	0	7.692307692	76.92307692
7.692307692	0	10.57692308	72.11538462
7.692307692	0	7.692307692	71.15384615
7.692307692	0	7.692307692	69.23076923
7.692307692	0	7.692307692	61.53846154
3.846153846	0	7.692307692	57.69230769
7.692307692	0	7.692307692	69.23076923
7.692307692	0	7.692307692	69.23076923
7.692307692	0	7.692307692	69.23076923
7.692307692	0	7.692307692	69.23076923
7.692307692	0	7.692307692	69.23076923
7.692307692	0	7.692307692	69.23076923
7.692307692	7.692307692	7.692307692	46.15384615
7.692307692	0	7.692307692	71.42857143
7.692307692	0	7.692307692	69.23076923
7.692307692	0	7.692307692	69.23076923
7.692307692	0	7.692307692	69.23076923

de données avec des bruits ajoutés (bruits forts (flou , salt and paper, poisson))

Matrice de confusion global sans bruits ajoutés

6	7	8	9
41.53125	0	26.140625	0.307617188
12	3.076171875	27.6875	10.4609375
15.078125	0.307617188	9.5390625	1.846679688
6.57421875	0.285644531	24.28125	13.7109375
11.734375	1.866210938	22.9375	4.80078125
6.40234375	1.06640625	26.125	6.1328125

6	7	8	9
44.09375	0.18762207	3.189453125	3.189453125
12.953125	1.125	13.8828125	13.8828125
23.828125	1.313476563	20.453125	6.94140625

test-multi

15.5	0	17.9375	14.46875
5.69140625	0.813476563	14.6328125	13.65625
4.875	0.487792969	25.1875	9.59375

6	7	8	9
35.59375	1.977539063	3.296875	0.219726563
6.59375	12.7421875	15.3828125	8.3515625
6.59375	8.3515625	13.40625	2.41796875
7.55078125	5.51171875	13.8828125	7.9609375
6.28515625	5.90625	17.53125	3.23828125
0.76171875	5.140625	17.328125	3.23828125

6	7	8	9
15.3828125	0.512695313	29.734375	5.3828125
12.8203125	1.025390625	14.359375	15.3828125
7.69140625	1.538085938	16.40625	9.2265625
5.23828125	1.190429688	11.1875	10
6.4453125	1.77734375	6.4453125	7.5546875
4.4453125	2.22265625	14.4375	4.4453125

6	7	8	9
62	0	3.9609375	1.630859375
36.84375	2.09765625	6.5234375	5.828125
35.4375	0	7.2265625	2.09765625
16.875	0.649414063	11.8984375	6.92578125
20	2.01953125	16.5625	5.05078125
32.3125	0.605957031	16.15625	0.404052734

6	7	8	9
39.84375	0.197265625	13.015625	1.97265625
36.3125	0.591796875	4.33984375	10.25
36.3125	0	8.28125	4.33984375
28.203125	0	9.3359375	12.6328125
15.3828125	0.68359375	16.75	8.71875
18.625	0.341796875	16.234375	4.2734375

sion global sans bruits ajoutés

6	7	8	9
61.28125	0	13.4609375	0.82421875
58.25	0.82421875	3.021484375	7.4140625

test-multi

44.25	0	15.9296875	0.82421875
48.96875	0.255126953	19.640625	7.65234375
35.21875	1.190429688	22.375	2.619140625
40.9375	0.713867188	27.859375	2.619140625

6	7	8	9
23.078125	2.3671875	12.4296875	3.845703125
6.8046875	17.15625	14.1953125	13.609375
5.32421875	23.96875	16.265625	2.662109375
5.4921875	25.828125	11.8125	13.4609375
2.5625	20.5	18.96875	7.1796875
1.28125	22.5625	22.8125	10.25

6	7	8	9
26.09375	0	32.6875	0.549316406
13.4609375	2.47265625	40.375	8.7890625
14.015625	0.82421875	31.859375	5.21875
17.609375	0.765136719	52.53125	11.484375
10	3.09375	41.4375	6.1875
13.1015625	0.952148438	49.75	6.1875

6	7	8	9
15.109375	0	40.125	6.04296875
11.5390625	2.47265625	36	20.609375
15.6640625	1.373046875	10.4375	20.0625
9.9453125	0	17.34375	35.21875
6.1875	1.190429688	15.4765625	27.390625
5.94921875	0.952148438	20	34.28125

test-multi

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