

RFA – LAB. PERCEPTRÓN

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La pareja de valores α y β han sido elegidos en base al estudio de ambas variables por separado que puede observarse en las tablas posteriores.

TAREA	Error (%)	INT. (%)	K	α	β
OCR_14x14	5.7	[1.5, 5.8]	200	10	300
expressions	4.5	[0, 9.4]	200	1.0	10 000
gauss2D	11.7	[9.9, 13.5]	200	0.15	0.1
gender	6.7	[5.0, 8.4]	200	1.0	1 000
iris	0	[0, 0]	200	0.10	1
news	51.6	[50.4, 52.8]	200	1.0	0.1
videos	19.0	[17.5, 20.6]	200	10 000	0.01

OCR_14x14				
a	E	k	Ete	Ete (%)
0.10	0	16	20	6.67
1	0	13	17	5.67
10	0	8	15	5.00
100	0	12	16	5.33
1 000	0	12	16	5.33
10 000	0	12	16	5.33
100 000	0	12	16	5.33
b	E	k	Ete	Ete (%)
0.10	0	13	17	5.67
1	0	16	20	6.67
10	0	10	19	6.33
100	0	22	16	5.33
1 000	0	125	13	4.33
10 000	165	200	10	3.33
100 000	544	200	29	9.67

expressions				
a	E	k	Ete	Ete (%)
0.10	0	63	3	4.48
1	0	63	3	4.48
10	0	63	3	4.48
100	0	63	3	4.48
1 000	0	63	3	4.48
10 000	0	63	3	4.48
100 000	0	63	3	4.48
b	E	k	Ete	Ete (%)
0.10	0	63	3	4.48
1	0	63	3	4.48
10	0	63	3	4.48
100	0	63	3	4.48
1 000	0	63	3	4.48
10 000	0	57	2	2.99
100 000	0	95	3	4.48

gauss2D				
a	E	k	Ete	Ete (%)
0.10	606	200	157	13.08
1	547	200	140	11.67
10	536	200	160	13.33
100	549	200	134	11.17
1 000	552	200	154	12.83
10 000	557	200	153	12.75
100 000	557	200	153	12.75
b	E	k	Ete	Error (%)
0.10	547	200	140	11.67
1	606	200	157	13.08
10	737	200	111	9.25
100	860	200	110	9.17
1 000	878	200	108	9.00
10 000	903	200	111	9.25
100 000	1248	200	138	11.50

gender				
a	E	k	Error	Ete (%)
0.10	0	76	57	6.70
1	0	76	57	6.70
10	0	76	57	6.70
100	0	76	57	6.70
1 000	0	76	57	6.70
10 000	0	76	57	6.70
100 000	0	76	57	6.70
b	E	k	Ete	Ete (%)
0.10	0	76	57	6.70
1	0	76	57	6.70
10	0	76	57	6.70
100	0	76	57	6.70
1 000	0	76	52	6.11
10 000	0	76	58	6.82
100 000	0	76	58	6.82

iris				
a	E	k	Ete	Ete (%)
0.10	0	11	0	0
1	0	15	0	0
10	0	15	0	0
100	0	15	0	0
1 000	0	15	0	0
10 000	0	15	0	0
100 000	0	15	0	0
b	E	k	Error	Error (%)
0.10	0	15	0	0
1	0	11	0	0
10	3	200	0	0
100	4	200	2	40
1 000	6	200	3	60
10 000	9	200	3	60
100 000	13	200	3	60

news				
a	E	k	Error	Ete (%)
0.10	8053	200	3440	52.84
1	7997	200	3359	51.60
10	7997	200	3359	51.60
100	7997	200	3359	51.60
1 000	7997	200	3359	51.60
10 000	7997	200	3359	51.60
100 000	7997	200	3359	51.60
b	E	k	Ete	Ete (%)
0.10	7997	200	3359	51.60
1	7997	200	3359	51.60
10	8584	200	3256	50.02
100	9682	200	2917	44.81
1 000	10230	200	2887	44.35
10 000	10434	200	2845	43.70
100 000	11640	200	2904	44.61

videos				
a	E	k	Ete	Ete (%)
0.10	1652	200	469	19.58
1	1102	200	456	19.04
10	1012	200	447	18.66
100	1018	200	462	19.29
1 000	1018	200	466	19.46
10 000	994	200	464	19.37
100 000	1008	200	469	19.58

a	E	k	Ete	Ete (%)
0.10	1102	200	456	19.04
1	1652	200	469	19.58
10	2772	200	458	19.12
100	4366	200	614	25.64
1 000	5538	200	1214	50.69
10 000	5590	200	1245	51.98
100 000	5590	200	1245	51.98