Table 22: List of the artificial data sets.

Dataset	N	p	$K^\star$	reference
2d-10c	2990	2	9	[76]
2d-3c-no123	715	2	3	[76]
2d-4c	1261	2	4	[76]
2d-4c-no4	863	2	4	[76]
2d-4c-no9	876	2	4	[76]
3clusters_elephant	700	2	3	
4clusters_corner	1575	2	4	
4clusters_twins	612	2	4	
5clusters_stars	1050	2	5	
A1	3000	2	20	[77]
A2	5250	2	35	[77]
curves1	1000	2	2	[67]
D31	3100	2	31	[78]
diamond9	3000	2	9	[79]
dim032	1024	32	16	[77]
dim064	1024	64	16	[77]
dim1024	1024	1024	16	[77]
dim128	1024	128	16	[77]
dim256	1024	256	16	[77]
dim512	1024	512	16	[77]
DS-577	577	2	3	[80]
DS-850	850	2	5	[80]
ds4c2sc8	485	2	8	[81]
elliptical_10_2	500	2	10	[82]
elly-2d10c13s	2796	2	10	[76]
engytime	4096	2	2	FCPS [52]
exemples1_3g	525	2	3	
exemples10_WellS_3g	975	2	3	
exemples2_5g	1375	2	5	
exemples3_Uvar_4g	1000	2	4	
exemples4_overlap_3g	1050	2	3	
exemples5_overlap2_3g	1550	2	3	
exemples6_quicunx_4g	2250	2	4	
exemples7_elbow_3g	788	2	3	
exemples8_Overlap_Uvar_5g	2208	2	6	
exemples9_YoD_6g	2208	2	6	
fourty	1000	2	40	[67]
g2-16	2048	16	2	[77]
g2-2	2048	2	2	[77]
g2-64	2048	64	2	[77]
hepta	212	3	7	FCPS [52]
long1	1000	2	2	[83]
long2	1000	2	2	[83]
long3	1000	2	2	[83]
longsquare	900	2	6	[83]
R15	600	2	15	[78]
s-set1	5000	2	15	[77]
s-set2	5000	2	15	[77]
s-set3	5000	2	15	[77]
s-set4	5000	2	15	[77]
sizes1	1000	2	4	[83]
sizes2	1000	2	4	[83]
sizes3	1000	2	4	[83]
sizes4	1000	2	4	[83]
sizes5	1000	2	4	[83]
spherical_4_3	400	3	4	[82]
spherical_5_2	250	2	5	[82]
spherical_6_2	300	2	6	[82]
square1	1000	2	4	[83]
square2	1000	2	4	[83]
square3	1000	2	4	[83]
square4	1000	2	4	[83]
square5	1000	2	4	[83]
st900	900	2	9	[82]
tetra	400	3	4	FCPS [52]
triangle1	1000	2	4	[83]
triangle2	1000	2	4	[83]
twenty	1000	2	20	[67]
twodiamonds	800	2	2	FCPS [52]
wingnut	1016	2	2	FCPS [52]
xclara	3000	2	3	[84]
zelnik2	303	2	3	[85]
zelnik4	622	2	5	[85]

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