Table 1: Results of breast tissue dataset

Algorithm	k	r	aggregation	Level of missing values	auc	stddev	Cross validation
f	(3, 5)	2.0	A6	1111001118 (0111100	0.885972	0.078298	10
f	(3, 5)	5.0	A6		0.885972	0.078298	10
f	(3, 5)	10.0	A6		0.885972	0.078298	10
f	(3, 5)	2.0	A9		0.882222	0.076238	10
f	(3, 5)	5.0	A9		0.882222	0.081323	10
f	(3, 5)	10.0	A9		0.882222	0.081323	10
f	(3, 5)	2.0	A5		0.881806	0.031929	10
f	(3, 5)	5.0	A5		0.881806	0.078969	10
f	(3, 5)	10.0	A5		0.881806	0.078969	10
f	(3, 5)	2.0	A1		0.881806	0.075642	10
f	(3, 5)	5.0	A1		0.881806	0.075642	10
f	(3,5)	10.0	A1		0.881806	0.075642	10
f	(3,5)	2.0	A2		0.881806	0.075642	10
f	(3,5)	5.0	A2		0.881806	0.075642	10
f	(3,5)	10.0	A2		0.881806	0.075642	10
f	(3, 5)	2.0	A7		0.881806	0.075642	10
f	(3, 5)	5.0	A7		0.881806	0.075642	10
f	(3, 5)	10.0	A7		0.881806	0.075642	10
m	(3,5)				0.881806	0.075642	10
f	(3, 5)	2.0	A3		0.880556	0.082846	10
f	(3, 5)	5.0	A3		0.880556	0.082846	10
f	(3, 5)	10.0	A3		0.880556	0.082846	10
f	(3, 5)	2.0	A4		0.879722	0.081826	10
f	(3, 5)	5.0	A4		0.879722	0.081826	10
f	(3, 5)	10.0	A4		0.879722	0.081826	10
f	(3, 5)	2.0	A10		0.879722	0.081826	10
f	(3, 5)	5.0	A10		0.879722	0.081826	10
f	(3, 5)	10.0	A10		0.879722	0.081826	10
f	(3, 5)	2.0	A8		0.878889	0.076566	10
f	(3, 5)	5.0	A8		0.878889	0.076566	10
f	(3, 5)	10.0	A8		0.878889	0.076566	10
f	(2,4)	2.0	A1	0.0	0.868750	0.064107	10
f	(2,4)	5.0	A1		0.868750	0.064107	10
f	(2,4)	10.0	A1		0.868750	0.064107	10
f	(2,4)	2.0	A2		0.868750	0.064107	10
f	(2,4)	5.0	A2		0.868750	0.064107	10
f	(2,4)	10.0	A2		0.868750	0.064107	10
f	(2,4)	2.0	A6		0.868750	0.063168	10
f	(2,4)	5.0	A6		0.868750	0.063168	10
f	(2,4)	10.0	A6		0.868750	0.063168	10
f	(2,4)	2.0	A7		0.868750	0.064107	10
f	(2,4)	5.0	A7		0.868750	0.064107	10
f	(2,4)	10.0	A7		0.868750	0.064107	10
f	(2,4)	2.0	A10		0.868750	0.064796	10
f	(2,4)	5.0	A10		0.868750	0.064796	10
f	(2,4)	10.0	A10		0.868750	0.064796	10
m	(2,4)	0.0	4.0		0.868750	0.064107	10
f	(2,4)	2.0	A3		0.867917	0.063800	10
f	(2,4)	5.0	A3		0.867917	0.063800	10
f f	(2,4)	10.0	A3		0.867917	0.063800	10
f	(2,4)	2.0	A4 A4		0.867917 0.867917	$0.063800 \\ 0.063800$	10 10
f	(2,4)	5.0					10
f	(2,4)	10.0	A4 A5		0.867917 0.867917	$0.063800 \\ 0.061018$	10
f	(2,4)	5.0	A5 A5		0.867917	0.061018	10
f	(2,4)	10.0	A5 A5		0.867917	0.061018	10
f	(2,4)	2.0	A9		0.867917	0.063800	10
f	(2,4)	5.0	A9 A9		0.867917	0.063800	10
f	(2,4) $(2,4)$	10.0	A9 A9		0.867917	0.063800	10
f	(2,4) $(2,4)$	2.0	A9 A8		0.867083	0.063812	10
f	(2,4) $(2,4)$	5.0	A8		0.867083	0.063812	10
1	(2 ,±)	0.0	110	l	0.001000	0.000012	10

Algorithm	k	r	aggregation	Level of	auc	stddev	Cross
		1		missing values	1	1	validation
f	(2,4)	10.0	A8		0.867083	0.063812	10
f f	(2,4)	2.0 5.0	A8 A5		0.888889 0.888472	0.073851 0.085145	10 10
f	(3, 5) $(3, 5)$	2.0	A5 A5		0.888472	0.085145 0.082460	10
f	(3, 5)	10.0	A3		0.886389	0.032400 0.075253	10
f	(3, 5)	10.0	A6		0.885972	0.073233	10
f	(2,4)	2.0	A1		0.885139	0.063772	10
f	(3, 5)	5.0	A4		0.884722	0.070501	10
f	(3,5)	2.0	A6		0.883889	0.079531	10
f	(3,5)	5.0	A7		0.882500	0.068036	10
f	(3, 5)	5.0	A1		0.880972	0.074900	10
f	(3, 5)	5.0	A6		0.880556	0.079365	10
f	(3, 5)	2.0	A7		0.879722	0.072820	10
f	(3, 5)	5.0	A2		0.879583	0.100317	10
f	(2,4)	2.0	A2		0.878472	0.077436	10
f f	(2,4)	10.0	A7		0.878333	0.069605	10
f	(3, 5)	2.0 10.0	A2 A4		0.876806 0.876667	0.082116 0.074282	10 10
f	(2,4) $(3,5)$	5.0	A3		0.876250	0.074282 0.076201	10
f	(3, 5)	2.0	A3 A9		0.876250 0.876250	0.076201 0.067958	10
f	(3, 5)	10.0	A7		0.875556	0.071914	10
f	(3, 5)	5.0	A8		0.875556	0.070541	10
f	(2,4)	5.0	A2		0.875417	0.063265	10
f	(2,4)	5.0	A4		0.875417	0.075114	10
f	(3, 5)	10.0	A8		0.875139	0.078315	10
f	(2,4)	10.0	A2		0.875000	0.066667	10
f	(2,4)	2.0	A5		0.875000	0.055172	10
f	(3, 5)	2.0	A4		0.874306	0.079452	10
f	(3, 5)	10.0	A2		0.874306	0.080434	10
f	(3, 5)	10.0	A1		0.873889	0.069478	10
f f	(3, 5)	2.0	A3		0.873889	0.085936	10
f	(2,4) $(3,5)$	2.0 10.0	A3 A4		$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$0.058720 \\ 0.081627$	10 10
f	(2,4)	5.0	A4 A6	0.01	0.872083	0.081027 0.072224	10
f	(2,4) $(2,4)$	10.0	A6	0.01	0.872083	0.072224	10
f	(3,5)	10.0	A10		0.870556	0.057953	10
f	(2,4)	2.0	A4		0.869583	0.061081	10
f	(2,4)	5.0	A10		0.869167	0.073341	10
f	(2,4)	10.0	A1		0.868750	0.086094	10
f	(3, 5)	2.0	A1		0.868472	0.060075	10
f	(2,4)	5.0	A7		0.868333	0.072707	10
f	(2,4)	5.0	A5		0.867778	0.076111	10
f	(3, 5)	10.0	A5		0.866250	0.085869	10
f	(2,4)	2.0	A7		0.865139	0.065882	10
f f	(2,4)	2.0	A9 A5		0.864167	0.077485	10
f	(2,4) $(2,4)$	10.0 10.0	A5 A8		0.863056 0.862639	0.067922 0.065804	10 10
f	(2,4) $(2,4)$	5.0	A8 A1		0.862500	0.005804 0.045728	10
f	(2,4) $(2,4)$	10.0	A10		0.862500	0.045728	10
f	(3,5)	2.0	A10		0.862083	0.071293	10
f	(2,4)	5.0	A9		0.862083	0.052428	10
f	(2,4)	2.0	A10		0.861806	0.091560	10
f	(3, 5)	5.0	A9		0.860833	0.073077	10
f	(2,4)	5.0	A8		0.860833	0.071043	10
f	(3, 5)	5.0	A10		0.855972	0.080734	10
f	(2,4)	10.0	A9		0.855833	0.073420	10
m	(2,4)	0.0			0.854583	0.091571	10
f	(3, 5)	2.0	A8		0.854167	0.083518	10
f f	(2,4)	2.0	A6		0.854167	0.086357	10
f	(2,4)	10.0 10.0	A3 A9		0.854028 0.853889	$0.062104 \\ 0.100370$	10 10
f	(3, 5) $(2,4)$	5.0	A9 A3		0.833889	0.100370 0.079514	10
1	(4,4)	1 3.0	110	I	0.040001	0.010014	10

Algorithm	k	r	aggregation	Level of	auc	stddev	Cross
				missing values			validation
m	(3, 5)				0.842639	0.093784	10
f	(2,4)	10.0	A2		0.891250	0.045620	10
f	(2,4)	10.0	A1		0.888333	0.057326	10
f	(3, 5)	10.0	A4		0.887917	0.089288	10
f	(3, 5)	10.0	A2		0.883194	0.068410	10
f f	(3, 5)	$5.0 \\ 2.0$	A4 A4		0.882083 0.881944	0.053361 0.082176	10 10
f	(2,4) $(3,5)$	10.0	A4 A7		0.879583	0.082170 0.090127	10
f	(2,4)	5.0	A8		0.879028	0.076864	10
f	(3,5)	5.0	A3		0.876389	0.054653	10
f	(2,4)	10.0	A5		0.874583	0.060960	10
f	(3, 5)	2.0	A5		0.874167	0.052219	10
f	(3,5)	5.0	A6		0.872917	0.107102	10
f	(3, 5)	10.0	A3		0.871250	0.054555	10
f	(3, 5)	2.0	A3		0.870000	0.047178	10
f	(3, 5)	5.0	A7		0.869861	0.078598	10
f	(2,4)	10.0	A7		0.869722	0.079782	10
f	(2,4)	2.0	A6		0.869722	0.067678	10
f	(3, 5)	2.0	A8		0.869306	0.066025	10
f f	(2,4)	5.0	A10		0.868472	0.081574	10
f	(3, 5) $(2,4)$	5.0 5.0	A2 A7		0.868056 0.864722	0.073546 0.100899	10 10
f	(2,4)	10.0	A4		0.864583	0.100899	10
f	(3,5)	10.0	A5		0.864444	0.070286	10
f	(2,4)	2.0	A10		0.864167	0.065534	10
f	(2,4)	10.0	A3		0.863889	0.096359	10
f	(2,4)	2.0	A1	0.05	0.862500	0.072436	10
f	(3,5)	5.0	A1		0.861667	0.075584	10
f	(3, 5)	10.0	A9		0.859167	0.068572	10
f	(3, 5)	5.0	A9		0.857500	0.060820	10
f	(2,4)	2.0	A8		0.857222	0.086466	10
f	(2,4)	10.0	A9		0.857222	0.079192	10
f	(3, 5)	10.0	A1		0.856528	0.067218	10
f	(2,4)	10.0	A10		0.856111	0.090576	10
f	(3, 5) $(3, 5)$	2.0 10.0	A6 A10		0.855556 0.855417	$0.094001 \\ 0.077156$	10 10
f	(3, 5)	10.0	A10 A8		0.85417 0.854167	0.077130 0.065293	10
f	(2,4)	5.0	A5		0.853889	0.003293 0.078351	10
f	(3,5)	2.0	A10		0.852083	0.095243	10
f	(3, 5)	10.0	A6		0.852083	0.099986	10
f	(2,4)	5.0	A9		0.851528	0.071669	10
f	(3, 5)	5.0	A8		0.849444	0.062386	10
f	(3, 5)	2.0	A2		0.848889	0.087545	10
f	(2,4)	2.0	A9		0.845556	0.058461	10
f	(2,4)	2.0	A3		0.844722	0.084685	10
f f	(3, 5)	5.0	A10		0.844583	0.081722	10
f	(2,4)	10.0 2.0	A6 A9		0.844583 0.844444	0.077081 0.084033	10
f	(3, 5) $(3, 5)$	$\frac{2.0}{2.0}$	A9 A7		0.844444 0.843611	0.084033	10 10
f	(2,4)	5.0	A4		0.843011 0.843056	0.039081 0.074553	10
f	(3,5)	2.0	A1		0.842917	0.082567	10
f	(2,4)	5.0	A3		0.842361	0.085231	10
f	(2,4)	5.0	A2		0.842222	0.085582	10
f	(2,4)	5.0	A1		0.841528	0.077804	10
f	(2,4)	10.0	A8		0.840417	0.090484	10
f	(2,4)	2.0	A5		0.838750	0.075437	10
f	(3, 5)	2.0	A4		0.833611	0.078907	10
f	(2,4)	2.0	A7		0.833611	0.064276	10
f f	(2,4)	2.0	A2		0.830833	0.075962	10
	(2,4) $(3,5)$	5.0	A6		0.829722 0.824583	0.068007 0.067256	10 10
m f	(3, 5)	5.0	A5		0.824585 0.818194	0.067250 0.091920	10
1	(3, 3)	1 3.0	110	I	0.010104	0.001020	10

Algorithm	k	r	aggregation	Level of missing values	auc	stddev	Cross validation
1	(2.4)	<u> </u> 	<u> </u>	imssing varues			
m	(2,4)	2.0	1.0		0.775694	0.055002	10
f f	(3, 5)	2.0 10.0	A6 A5		0.895139 0.874861	0.052207 0.067550	10 10
f	(3, 5) $(3, 5)$	5.0	A3 A4		0.872778	0.067330	10
f	(3, 5)	5.0	A3		0.868056	0.004404	10
f	(2,4)	10.0	A6		0.866528	0.069990	10
f	(3,5)	2.0	A5		0.864444	0.082343	10
f	(2,4)	2.0	A2		0.864306	0.063778	10
f	(2,4)	2.0	A8		0.863333	0.103149	10
f	(3,5)	10.0	A3		0.860278	0.044968	10
f	(3, 5)	2.0	A8		0.857917	0.097152	10
f	(3, 5)	2.0	A1		0.857639	0.073500	10
f	(2,4)	5.0	A10		0.856528	0.104640	10
f	(3, 5)	5.0	A1		0.856250	0.058653	10
f	(3, 5)	10.0	A7		0.854167	0.094199	10
f	(2,4)	10.0	A4		0.854167	0.076174	10
f f	(3, 5)	10.0 10.0	A2		0.853194	0.051674	10 10
f	(2,4) $(3,5)$	10.0	A10 A1		0.852361 0.851250	0.066150 0.108654	10
f	(2,4)	5.0	A1 A5		0.831230 0.849583	0.103034	10
f	(3,5)	5.0	A9		0.848333	0.032000	10
f	(3, 5)	10.0	A8		0.846667	0.097179	10
f	(3, 5)	2.0	A9		0.845694	0.072667	10
f	(3,5)	5.0	A5		0.844306	0.097349	10
f	(3,5)	10.0	A9		0.844167	0.085283	10
f	(2,4)	10.0	A7		0.844167	0.042762	10
f	(2,4)	5.0	A8		0.844028	0.055118	10
f	(2,4)	2.0	A9		0.843194	0.060584	10
f	(3, 5)	2.0	A10		0.842222	0.110915	10
f	(3, 5)	5.0	A10		0.841667	0.061395	10
f f	(2,4)	5.0	A7		0.841528	0.069852	10
f	(2,4)	2.0 2.0	A6 A7	0.1	0.841389 0.840139	0.088057 0.061727	10 10
f	(3, 5) $(3, 5)$	10.0	A6	0.1	0.840139	0.001727	10
f	(3,5)	5.0	A8		0.839028	0.057603	10
f	(2,4)	5.0	A1		0.837917	0.072740	10
f	(2,4)	10.0	A5		0.837222	0.067668	10
f	(2,4)	10.0	A8		0.836528	0.087506	10
f	(2,4)	5.0	A3		0.836111	0.085434	10
f	(2,4)	10.0	A1		0.835972	0.064312	10
f	(2,4)	2.0	A5		0.834861	0.087679	10
f	(3, 5)	2.0	A3		0.834722	0.069343	10
f	(2,4)	10.0	A2		0.831944	0.077169	10
f f	(2,4)	10.0	A3		0.831528	0.080287	10
f	(2,4)	2.0	A10 A9		0.830694	0.092686	10 10
f	(2,4) $(2,4)$	5.0 2.0	A9 A1		0.823889 0.823750	0.099888 0.058070	10
f	(3,5)	10.0	A10		0.823730	0.035070 0.125539	10
f	(3, 5)	10.0	A10 A4		0.822778	0.125559 0.130252	10
f	(2,4)	10.0	A9		0.822222	0.094492	10
f	(2,4)	2.0	A4		0.821806	0.091395	10
f	(3,5)	5.0	A7		0.818750	0.098951	10
f	(2,4)	5.0	A4		0.814167	0.083569	10
f	(2,4)	2.0	A7		0.812778	0.065672	10
f	(3, 5)	5.0	A2		0.811528	0.069002	10
f	(2,4)	2.0	A3		0.809306	0.082903	10
f	(3, 5)	5.0	A6		0.801806	0.076589	10
f f	(2,4)	5.0	A2		0.799444	0.046570	10
f	(3, 5) $(2,4)$	2.0 5.0	A2 A6		0.779444 0.778472	0.090835 0.089349	10 10
f	(2,4) $(3,5)$	2.0	A0 A4		0.776250	0.089349 0.066320	10
m	(3, 5)	2.0	11-1		0.771389	0.000320	10
1	, (5, 5)	I	I	I	1 2	1 2.2 20010	±

Algorithm	k	r	aggregation	Level of	auc	stddev	Cross
				missing values			validation
m	(2,4)				0.733056	0.080032	10
f	(3, 5)	10.0	A1		0.855694	0.069778	10
f	(3, 5)	10.0	A6		0.851111	0.049504	10
f f	(2,4)	2.0 10.0	A4 A8		0.850000 0.834167	$\begin{array}{c c} 0.056211 \\ 0.060250 \end{array}$	10 10
f	(3, 5) $(3, 5)$	10.0	A8 A10		0.834167	0.000230	10
f	(3, 5)	2.0	A10 A8		0.833472	0.066064	10
f	(3, 5)	10.0	A3		0.829167	0.072802	10
f	(2,4)	2.0	A8		0.820417	0.089180	10
f	(2,4)	10.0	A6		0.818889	0.084600	10
f	(2,4)	5.0	A8		0.815000	0.085240	10
f	(2,4)	5.0	A5		0.811944	0.063953	10
f	(3, 5)	2.0	A3		0.811389	0.046641	10
f	(2,4)	5.0	A7		0.807778	0.080737	10
f f	(2,4)	5.0	A6		0.803472	0.109419	10
f	(2,4)	5.0 5.0	A1 A9		0.803472 0.801111	0.092787 0.050003	10 10
f	(3, 5) $(3, 5)$	2.0	A9 A5		0.801111	0.030003	10
f	(3, 5)	10.0	A4		0.800278	0.114017	10
f	(2,4)	2.0	A3		0.799444	0.065191	10
f	(2,4)	10.0	A4		0.798611	0.092699	10
f	(3,5)	5.0	A1		0.790833	0.093951	10
f	(2,4)	10.0	A8		0.786944	0.055111	10
f	(2,4)	10.0	A9		0.784722	0.045333	10
f	(3, 5)	2.0	A6		0.784306	0.121204	10
f	(3, 5)	10.0	A5		0.783056	0.086607	10
f f	(3, 5)	10.0 2.0	A2 A7		0.782639 0.779167	0.091754 0.050107	10 10
f	(3, 5) $(2,4)$	$\frac{2.0}{2.0}$	A10		0.775278	0.050107	10
f	(2,4) $(2,4)$	5.0	A10 A4		0.773611	0.037710	10
f	(3,5)	5.0	A10		0.773472	0.070745	10
f	(2,4)	5.0	A10	0.2	0.770139	0.039671	10
f	(2,4)	5.0	A2		0.767778	0.050417	10
f	(3, 5)	5.0	A8		0.767361	0.101297	10
f	(3, 5)	2.0	A9		0.762083	0.115963	10
f	(2,4)	10.0	A2		0.761111	0.095366	10
f f	(2,4)	2.0 2.0	A7 A2		0.760833 0.760556	$0.056576 \\ 0.082038$	10 10
f	(3, 5) $(2,4)$	10.0	A2 A3		0.752083	0.002038	10
f	(3,5)	10.0	A7		0.750000	0.057035 0.057437	10
f	(2,4)	10.0	A5		0.747083	0.080870	10
f	(3,5)	5.0	A7		0.746250	0.080273	10
f	(2,4)	2.0	A6		0.742361	0.105495	10
f	(3, 5)	10.0	A9		0.740278	0.059537	10
f	(2,4)	2.0	A1		0.739167	0.050583	10
f	(2,4)	2.0	A5		0.732917	0.087212	10
f f	(3, 5)	2.0	A10		0.727222	0.060682	10
f	(3, 5) $(2,4)$	$\begin{array}{c c} 2.0 \\ 2.0 \end{array}$	A4 A2		0.726944 0.725556	0.089390 0.088180	10 10
f	(3,5)	5.0	A2		0.724444	0.061899	10
f	(2,4)	5.0	A9		0.723194	0.059914	10
m	(3,5)		_		0.721389	0.096770	10
f	(2,4)	10.0	A1		0.717778	0.071563	10
f	(2,4)	2.0	A9		0.717639	0.109498	10
f	(3, 5)	5.0	A3		0.714722	0.078059	10
f	(2,4)	5.0	A3		0.714306	0.063711	10
f	(3, 5)	5.0	A4		0.705417	0.093448	10
m f	(2,4)	10.0	A10		0.705000 0.695556	0.072318 0.118478	10 10
f	(2,4) $(3,5)$	5.0	A10 A6		0.689583	0.118478 0.064997	10
f	(3, 5)	5.0	A5		0.688472	0.004337	10
f	(2,4)	10.0	A7		0.682639	0.119341	10
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Algorithm	k	r	aggregation	Level of	auc	stddev	Cross
				missing values			validation
f	(3, 5)	2.0	A1		0.655833	0.063369	10
f	(3, 5)	5.0	A5		0.780556	0.079508	10
f	(3, 5)	10.0	A10		0.778889	0.075191	10
f	(3, 5)	5.0	A9		0.751528	0.048949	10
m f	(3, 5)	10.0	A O		0.746944	0.104091	10
f	(2,4)	10.0 2.0	A8 A4		0.743333 0.741111	0.118491 0.043337	10 10
f	(2,4) $(3,5)$	5.0	A4 A7		0.741111 0.735556	0.045557	10
f	(2,4)	10.0	A7		0.735139	0.059939	10
f	(3,5)	10.0	A7		0.733333	0.093333	10
f	(3, 5)	2.0	A7		0.732083	0.076859	10
f	(3, 5)	2.0	A5		0.724306	0.081873	10
f	(2,4)	5.0	A2		0.722778	0.084828	10
f	(2,4)	10.0	A2		0.721528	0.066838	10
f	(3,5)	5.0	A1		0.719722	0.082565	10
f	(3, 5)	10.0	A4		0.719167	0.105519	10
f	(2,4)	10.0	A4		0.718194	0.040288	10
f	(3, 5)	2.0	A9		0.717222	0.093620	10
f	(2,4)	5.0	A3		0.716667	0.107417	10
f	(3, 5)	10.0	A9		0.715556	0.081096	10
f	(3, 5)	2.0	A10		0.715417	0.073389	10
f	(3, 5)	5.0	A6		0.715139	0.068166	10
f	(3, 5)	5.0	A2		0.715000	0.082298	10
f	(3, 5)	10.0	A1		0.714444	0.079193	10
f	(3, 5)	5.0	A3		0.708889	0.098676	10
m f	(2,4)	10.0	A E		0.706528	0.062738	10
f	(3, 5) $(2,4)$	10.0 5.0	A5 A9		0.695694 0.694167	0.070821 0.098032	10 10
f	(3,5)	2.0	A3	0.3	0.694107 0.691389	0.098032	10
f	(3, 5)	10.0	A3	0.5	0.688194	0.007110	10
f	(3, 5)	5.0	A10		0.684583	0.093943	10
f	(2,4)	2.0	A9		0.683472	0.041214	10
f	(3,5)	10.0	A6		0.681667	0.081276	10
f	(2,4)	2.0	A2		0.680833	0.097493	10
f	(3, 5)	10.0	A2		0.674583	0.141487	10
f	(2,4)	10.0	A9		0.672639	0.095839	10
f	(3, 5)	5.0	A8		0.672083	0.073179	10
f	(2,4)	10.0	A5		0.669722	0.070208	10
f	(3, 5)	2.0	A8		0.667917	0.080910	10
f	(2,4)	10.0	A1		0.665417	0.090704	10
f	(3, 5)	5.0	A4		0.665000	0.101879	10
f f	(2,4)	2.0	A6		0.662222	0.057485	10
f	(2,4)	5.0	A10 A10		0.662083	0.075459	10
f	(2,4)	10.0 5.0	A10 A4		0.660417 0.660278	0.072826 0.092410	10 10
f	(2,4) $(2,4)$	2.0	A4 A5		0.658889	0.092410 0.033251	10
f	(2,4) $(2,4)$	10.0	A6		0.055694	0.033231 0.073141	10
f	(2,4)	5.0	A5		0.647917	0.069117	10
f	(2,1)	5.0	A7		0.643750	0.040399	10
f	(2,4)	2.0	A8		0.642500	0.123903	10
f	(2,4)	2.0	A10		0.640833	0.054583	10
f	(3, 5)	2.0	A6		0.640000	0.077890	10
f	(2,4)	2.0	A3		0.639583	0.059552	10
f	(2,4)	5.0	A6		0.639028	0.137712	10
f	(3, 5)	2.0	A2		0.630556	0.118096	10
f	(2,4)	2.0	A7		0.630000	0.074952	10
f	(3, 5)	2.0	A1		0.629444	0.068157	10
f	(3, 5)	10.0	A8		0.623056	0.090142	10
f	(2,4)	5.0	A8		0.622500	0.091608	10
f f	(2,4)	10.0	A3		0.610417	0.126461	10
f	(3, 5) $(2,4)$	2.0 5.0	A4 A1		0.604444 0.595556	0.061376 0.081937	10 10
1	(4,4)	0.0	AI	I	0.080000	0.001991	10

Algorithm	k	r	aggregation	Level of missing values	auc	stddev	Cross validation
	(0.1)	1 0 5		missing values			
f	(2,4)	2.0	A1		0.590694	0.090184	10
f f	(2,4) $(3,5)$	10.0 10.0	A6 A5		$\begin{array}{c} 0.760278 \\ 0.757222 \end{array}$	0.062031 0.075654	10 10
f	(2,4)	5.0	A3		0.737222	0.040858	10
f	(3,5)	10.0	A2		0.711528	0.058692	10
f	(2,4)	10.0	A8		0.711111	0.113468	10
f	(3,5)	5.0	A2		0.710278	0.088554	10
f	(2,4)	10.0	A7		0.707361	0.052001	10
f	(2,4)	10.0	A3		0.704722	0.051869	10
f	(2,4)	2.0	A3		0.702778	0.109518	10
f	(3, 5)	10.0	A9		0.701111	0.077426	10
f	(3, 5)	2.0	A2		0.700556	0.099364	10
f f	(3, 5)	10.0 5.0	A6 A6		0.696389 0.695417	$\begin{array}{c} 0.105012 \\ 0.091228 \end{array}$	10 10
f	(2,4) $(3,5)$	2.0	A6		0.095417 0.688333	0.091228 0.070681	10
m	(2,4)	2.0	Au		0.688194	0.070031	10
f	(2,1) $(2,4)$	10.0	A5		0.687222	0.045114	10
f	(2,4)	10.0	A2		0.687083	0.060121	10
f	(3, 5)	5.0	A6		0.684444	0.029022	10
f	(3,5)	10.0	A3		0.683056	0.105421	10
f	(2,4)	2.0	A5		0.681250	0.058169	10
f	(3, 5)	2.0	A3		0.680139	0.078116	10
f	(2,4)	5.0	A8		0.680000	0.058275	10
f	(2,4)	5.0	A4		0.669583	0.074260	10
f f	(3, 5)	10.0	A1 A4		0.669028	0.085044	10
f	(3, 5) $(2,4)$	5.0 5.0	A4 A1		0.668194 0.665694	0.085312 0.067364	10 10
f	(3,5)	5.0	A1 A8		0.661667	0.007304	10
f	(3, 5)	5.0	A7		0.660556	0.091989	10
f	(2,4)	5.0	A9		0.660417	0.052510	10
f	(3,5)	5.0	A5	0.4	0.656806	0.149548	10
f	(2,4)	2.0	A4		0.654306	0.098746	10
f	(3, 5)	2.0	A5		0.652917	0.100433	10
f	(3, 5)	5.0	A10		0.651667	0.095823	10
f	(2,4)	10.0	A1		0.647778	0.079460	10
f f	(3, 5) $(3, 5)$	2.0 2.0	A8 A1		0.646528 0.644444	0.089868 0.107736	10 10
f	(2,4)	2.0	A1		0.642639	0.107730	10
f	(2,1)	5.0	A7		0.641806	0.081267	10
f	(3, 5)	2.0	A4		0.641250	0.040830	10
f	(2,4)	10.0	A4		0.639583	0.097084	10
f	(2,4)	2.0	A10		0.638472	0.073691	10
f	(3, 5)	10.0	A8		0.636806	0.049128	10
f	(3, 5)	5.0	A9		0.633611	0.083448	10
f	(2,4)	5.0	A10		0.633333	0.058732	10
f f	(3, 5)	$\begin{array}{c c} 2.0 \\ 2.0 \end{array}$	A9 A7		$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	0.083915 0.132226	10
f	(3, 5) $(3, 5)$	10.0	A7		0.627361 0.626528	0.132220 0.106394	10 10
f	(2,4)	2.0	A7		0.623889	0.100394 0.123330	10
f	(3,5)	10.0	A10		0.623194	0.080091	10
f	(2,4)	10.0	A9		0.613889	0.064672	10
f	(2,4)	10.0	A10		0.610833	0.053455	10
f	(2,4)	5.0	A2		0.609583	0.104733	10
f	(3, 5)	10.0	A4		0.598611	0.110758	10
f	(2,4)	2.0	A2		0.597917	0.063120	10
f f	(2,4)	2.0	A9		0.581250	0.074769	10
f	(2,4)	5.0 5.0	A5 A1		$\begin{array}{ c c c c c }\hline 0.575694 \\ 0.567917 \\ \hline \end{array}$	$\begin{array}{c c} 0.114518 \\ 0.102856 \end{array}$	10 10
f	(3, 5) $(2,4)$	$\frac{5.0}{2.0}$	A1 A6		0.566528	0.102856 0.082642	10
m	(3,5)	2.0	110		0.554444	0.052042 0.057362	10
f	(3, 5)	2.0	A10		0.531528	0.097357	10
f	(2,4)	2.0	A8		0.528611	0.116151	10
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Algorithm	k	r	aggregation	Level of missing values	auc	stddev	Cross validation
<u> </u>	 (2 F)	5.0	A3	l missing varaes	0.440104	0.005166	
$\frac{f}{f}$	(3, 5) $(3, 5)$	10.0	A8		0.448194 0.729167	0.095166 0.043676	10
f	(3, 5)	5.0	A8		0.725107	0.045070	10
f	(3, 5)	5.0	A1		0.682639	0.074683	10
f	(2,4)	10.0	A3		0.680694	0.092524	10
f	(3, 5)	10.0	A5		0.675556	0.098092	10
f	(2,4)	2.0	A2		0.671806	0.087308	10
f	(3,5)	5.0	A2		0.667083	0.069172	10
f	(3, 5)	10.0	A4		0.666667	0.083290	10
f	(3, 5)	2.0	A9		0.665556	0.083135	10
f	(3, 5)	10.0	A7		0.665278	0.092724	10
f	(2,4)	5.0	A5		0.659583	0.116717	10
f	(3, 5)	10.0	A2		0.656389	0.101656	10
f	(2,4)	10.0	A8		0.649306	0.091761	10
f	(3, 5)	2.0	A8		0.643750	0.101697	10
f	(3, 5)	5.0	A7		0.639583	0.092575	10
f f	(2,4)	10.0	A6		0.639444	0.096105	10
f	(2,4)	2.0	A7		0.639444	0.061496	10 10
f	(3, 5) $(3, 5)$	5.0 5.0	A9 A3		0.637639 0.637083	0.089001 0.045214	10
m	(3, 5)	5.0	Ao		0.635833	0.045214 0.075162	10
f	(2,4)	5.0	A7	0.5	0.033633 0.632917	0.075102 0.121422	10
f	(2,4)	5.0	A3	0.0	0.632361	0.074403	10
f	(3,5)	5.0	A4		0.631667	0.120194	10
f	(3, 5)	2.0	A5		0.630417	0.134956	10
f	(2,4)	10.0	A7		0.628333	0.098423	10
f	(2,4)	5.0	A9		0.619583	0.105235	10
f	(2,4)	10.0	A5		0.619028	0.094406	10
f	(2,4)	2.0	A5		0.613889	0.064287	10
f	(2,4)	10.0	A1		0.612639	0.108101	10
f	(2,4)	10.0	A2		0.612639	0.104300	10
f	(2,4)	5.0	A4		0.611667	0.068575	10
f	(3, 5)	5.0	A10		0.608056	0.049646	10
m	(2,4)				0.606528	0.090838	10
f	(3, 5)	5.0	A5		0.602222	0.111073	10
f f	(2,4)	5.0	A2		0.598194	0.091998	10
f	(2,4)	10.0	A10 A6		0.596111	0.092391 0.086541	10 10
f	(3, 5) $(3, 5)$	10.0 10.0	A0 A3		0.595000 0.594722	0.080341 0.109795	10
f	(3, 5)	2.0	A3		0.592083	0.109793	10
f	(2,4)	5.0	A6		0.592003 0.590972	0.032401	10
f	(3, 5)	2.0	A7		0.588889	0.084688	10
f	(2,4)	5.0	A1		0.586528	0.097008	10
f	(2,4)	2.0	A1		0.586250	0.084187	10
f	(3,5)	2.0	A1		0.585972	0.093391	10
f	(3, 5)	10.0	A1		0.577083	0.101997	10
f	(3, 5)	10.0	A9		0.572500	0.071224	10
f	(2,4)	10.0	A9		0.570139	0.084554	10
f	(2,4)	5.0	A10		0.569722	0.079817	10
f	(2,4)	2.0	A4		0.565556	0.080539	10
f	(2,4)	2.0	A6		0.565139	0.110669	10
f	(3, 5)	5.0	A6		0.562639	0.100129	10
f	(2,4)	5.0	A8		0.555694	0.076973	10
f f	(3, 5)	2.0	A4		0.555278	0.149870	10
f	(2,4)	2.0 2.0	A3 A9		0.553194 0.545972	$0.092026 \\ 0.090643$	10 10
f	(2,4) $(3,5)$	$\frac{2.0}{2.0}$	A9 A10		0.545972 0.544722	0.090643 0.074056	10
f	(2,4)	10.0	A10 A4		0.544722 0.535278	0.074030 0.090942	10
f	(3,5)	10.0	A10		0.535278 0.531389	0.030342	10
f	(3, 5)	2.0	A6		0.528611	0.000023 0.104024	10
f	(2,4)	2.0	A10		0.521389	0.066083	10
f	(2,4)	2.0	A8		0.490417	0.074735	10
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Algorithm	k	r	aggregation	Level of missing values	auc	stddev	Cross validation
f	(3, 5)	2.0	A2		0.469722	0.083310	10