Wilcoxon Signed Ranks test.

KEEL non-parametric statistical module

May 9, 2011

1 Detailed results for 1R

1.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
Ameva	125.0	695.0	≥ 0.2	1
Bayesian	447.5	372.5	≥ 0.2	1
CACC	138.0	682.0	≥ 0.2	1
CADD	703.5	85.5	9.426E-4	0.001402
CAIM	64.0	756.0	≥ 0.2	1
Chi2	125.0	655.0	≥ 0.2	1
ChiMerge	62.0	758.0	≥ 0.2	1
ClusterAnalysis	419.0	364.0	≥ 0.2	1
DIBD	156.0	624.0	≥ 0.2	1
Distance	99.0	721.0	≥ 0.2	1
EqualFrequency	189.0	591.0	≥ 0.2	1
EqualWidth	258.5	561.5	≥ 0.2	1
Extended Chi2	223.0	560.0	≥ 0.2	1
FFD	335.0	448.0	≥ 0.2	1
FUSINTER	92.0	728.0	≥ 0.2	1
HDD	270.0	513.0	≥ 0.2	1
HellingerBD	183.0	637.0	≥ 0.2	1
Heter-Disc	472.5	347.5	≥ 0.2	1
ID3	449.0	371.0	≥ 0.2	1
IDD	459.5	329.5	≥ 0.2	1
Khiops	143.5	676.5	≥ 0.2	1
MDLP	93.0	727.0	≥ 0.2	1
Modified Chi2	181.0	602.0	≥ 0.2	1
MODL	148.5	671.5	≥ 0.2	1
MVD	363.0	457.0	≥ 0.2	1
PKID	382.0	438.0	≥ 0.2	1
UCPD	131.0	689.0	≥ 0.2	1
USD	387.0	433.0	≥ 0.2	1
Zeta	108.0	712.0	≥ 0.2	1

Table 1: Results obtained by the Wilcoxon test for algorithm 1R

1.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
Ameva	[-0.267 , -0.0942]	0.90276
Bayesian	[-0.03435 , 0.0562]	0.90276
CACC	[-0.25225 , -0.0765]	0.90276
CADD	[0.06145 , 0.161]	0.90276
CAIM	[-0.2809 , -0.11815]	0.90276
Chi2	[-0.2614 , -0.05825]	0.90276
ChiMerge	[-0.27925 , -0.0952]	0.90276
ClusterAnalysis	[-0.07495 , 0.06745]	0.90276
DIBD	[-0.19265 , -0.0446]	0.90276
Distance	[-0.2636 , -0.0984]	0.90276
EqualFrequency	[-0.2087 , -0.03205]	0.90276
EqualWidth	[-0.19725 , -0.0123]	0.90276
Extended Chi2	[-0.2062 , -0.02195]	0.90276
FFD	[-0.1567 , 0.0247]	0.90276
FUSINTER	[-0.28685 , -0.09175]	0.90276
HDD	[-0.172 , -0.00005]	0.90276
HellingerBD	[-0.22235 , -0.05415]	0.90276
Heter-Disc	[-0.02415 , 0.1354]	0.90276
ID3	[-0.0972 , 0.11635]	0.90276
IDD	[-0.00275 , 0.0373]	0.90276
Khiops	[-0.24345 , -0.0616]	0.90276
MDLP	[-0.26735 , -0.10445]	0.90276
Modified Chi2	[-0.23965 , -0.03405]	0.90276
MODL	[-0.1987 , -0.03745]	0.90276
MVD	[-0.109 , 0.0337]	0.90276
PKID	[-0.1542 , 0.0439]	0.90276
UCPD	[-0.2436 , -0.0718]	0.90276
USD	[-0.15415 , 0.03645]	0.90276
Zeta	[-0.25175 , -0.07955]	0.90276

Table 2: Confidence intervals for algorithm 1R (α=0.90)

α=0.95	Confidence interval	Exact confidence
Ameva	[-0.28695 , -0.0811]	0.95024
Bayesian	[-0.07255 , 0.0707]	0.95024
CACC	[-0.2641 , -0.06365]	0.95024
CADD	[0.0537 , 0.1735]	0.95024
CAIM	[-0.2966 , -0.10385]	0.95024
Chi2	[-0.2749 , -0.0501]	0.95024
ChiMerge	[-0.2924 , -0.08395]	0.95024
ClusterAnalysis	[-0.0894 , 0.0754]	0.95024
DIBD	[-0.2074 , -0.03555]	0.95024
Distance	[-0.277 , -0.08605]	0.95024
EqualFrequency	[-0.2228 , -0.0227]	0.95024
EqualWidth	[-0.2133 , -0.00325]	0.95024
Extended Chi2	[-0.22315 , -0.0146]	0.95024
FFD	[-0.17595 , 0.03185]	0.95024
FUSINTER	[-0.30335 , -0.0787]	0.95024
HDD	[-0.18615 , 0.012]	0.95024
HellingerBD	[-0.24245 , -0.04175]	0.95024
Heter-Disc	[-0.03515 , 0.15205]	0.95024
ID3	[-0.1187 , 0.13555]	0.95024
IDD	[-0.0149 , 0.0408]	0.95024
Khiops	[-0.25215 , -0.05295]	0.95024
MDLP	[-0.2837 , -0.08925]	0.95024
Modified Chi2	[-0.261 , -0.0237]	0.95024
MODL	[-0.21295 , -0.02915]	0.95024
MVD	[-0.12725 , 0.04]	0.95024
PKID	[-0.16985 , 0.05405]	0.95024
UCPD	[-0.25485 , -0.06245]	0.95024
USD	[-0.18035 , 0.0476]	0.95024
Zeta	[-0.2651 , -0.0671]	0.95024

Table 3: Confidence intervals for algorithm 1R (α=0.95)

2 Detailed results for Ameva

2.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	695.0	125.0	5.45E-5	0.000121
Bayesian	757.0	63.0	2.536E-7	0.000003
CACC	416.0	404.0	≥ 0.2	1
CADD	806.0	14.0	2.0E-10	0
CAIM	308.5	476.5	≥ 0.2	1
Chi2	452.5	367.5	≥ 0.2	0.959518
ChiMerge	337.5	445.5	≥ 0.2	1
ClusterAnalysis	697.0	83.0	3.67E-6	0.000017
DIBD	586.0	234.0	0.017158	0.017673
Distance	376.5	406.5	≥ 0.2	1
EqualFrequency	529.0	251.0	0.05256	0.051568
EqualWidth	619.0	161.0	9.974E-4	0.001362
Extended Chi2	623.0	197.0	0.00352	0.004108
FFD	653.0	127.0	1.201E-4	0.000236
FUSINTER	346.0	434.0	≥ 0.2	1
HDD	603.0	180.0	0.008744	0.009463
HellingerBD	564.0	216.0	0.014286	0.014712
Heter-Disc	773.0	47.0	3.948E-8	0.000001
ID3	722.5	97.5	2.5370000000000003E-5	0.000073
IDD	750.0	70.0	5.278E-7	0.000005
Khiops	484.0	296.0	0.19424	0.187254
MDLP	372.5	447.5	≥ 0.2	1
Modified Chi2	490.0	290.0	0.16676	0.160773
MODL	513.5	306.5	≥ 0.2	0.349584
MVD	702.0	118.0	3.296E-5	0.000084
PKID	705.5	114.5	9.488E-5	0.000199
UCPD	504.0	316.0	≥ 0.2	0.204012
USD	641.0	139.0	2.66E-4	0.000449
Zeta	481.0	302.0	≥ 0.2	0.450661

Table 4: Results obtained by the Wilcoxon test for algorithm Ameva

2.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[0.0942 , 0.267]	0.90276
Bayesian	[0.10225 , 0.2175]	0.90276
CACC	[-0.0064 , 0.01545]	0.90276
CADD	[0.2637 , 0.40985]	0.90276
CAIM	[-0.02105 , 0.00265]	0.90276
Chi2	[-0.0086 , 0.0302]	0.90276
ChiMerge	[-0.0149 , 0.0046]	0.90276
ClusterAnalysis	[0.09615 , 0.2057]	0.90276
DIBD	[0.01855 , 0.0895]	0.90276
Distance	[-0.01455 , 0.0122]	0.90276
EqualFrequency	[0.005 , 0.07375]	0.90276
EqualWidth	[0.03035 , 0.094]	0.90276
Extended Chi2	[0.01895 , 0.09495]	0.90276
FFD	[0.0523 , 0.13995]	0.90276
FUSINTER	[-0.02295 , 0.0129]	0.90276
HDD	[0.0374 , 0.1434]	0.90276
HellingerBD	[0.0104 , 0.05225]	0.90276
Heter-Disc	[0.16085 , 0.29525]	0.90276
ID3	[0.11395 , 0.23425]	0.90276
IDD	[0.12345 , 0.24925]	0.90276
Khiops	[-0.0049 , 0.0404]	0.90276
MDLP	[-0.02275 , 0.01125]	0.90276
Modified Chi2	[-0.00455 , 0.0602]	0.90276
MODL	[-0.00415 , 0.07115]	0.90276
MVD	[0.06725 , 0.19245]	0.90276
PKID	[0.0695 , 0.1505]	0.90276
UCPD	[-0.00405 , 0.0388]	0.90276
USD	[0.05795 , 0.16335]	0.90276
Zeta	[-0.004 , 0.02855]	0.90276

Table 5: Confidence intervals for algorithm Ameva (α=0.90)

α=0.95	Confidence interval	Exact confidence
1R	[0.0811 , 0.28695]	0.95024
Bayesian	[0.09395 , 0.2286]	0.95024
CACC	[-0.0086 , 0.01975]	0.95024
CADD	[0.25015 , 0.4208]	0.95024
CAIM	[-0.02245 , 0.00385]	0.95024
Chi2	[-0.0119 , 0.03955]	0.95024
ChiMerge	[-0.01765 , 0.006]	0.95024
ClusterAnalysis	[0.0859 , 0.2181]	0.95024
DIBD	[0.01065 , 0.09505]	0.95024
Distance	[-0.01765 , 0.01565]	0.95024
EqualFrequency	[-0.00155 , 0.0806]	0.95024
EqualWidth	[0.0242 , 0.10145]	0.95024
Extended Chi2	[0.0149 , 0.1012]	0.95024
FFD	[0.0459 , 0.1482]	0.95024
FUSINTER	[-0.0257 , 0.0169]	0.95024
HDD	[0.02255 , 0.1545]	0.95024
HellingerBD	[0.0065 , 0.0558]	0.95024
Heter-Disc	[0.1448 , 0.31065]	0.95024
ID3	[0.10915 , 0.2443]	0.95024
IDD	[0.1139 , 0.26255]	0.95024
Khiops	[-0.0093 , 0.04495]	0.95024
MDLP	[-0.02565 , 0.0147]	0.95024
Modified Chi2	[-0.0101 , 0.06685]	0.95024
MODL	[-0.0084 , 0.08015]	0.95024
MVD	[0.0518 , 0.1999]	0.95024
PKID	[0.0638 , 0.1618]	0.95024
UCPD	[-0.00745 , 0.04375]	0.95024
USD	[0.05185 , 0.1741]	0.95024
Zeta	[-0.0067 , 0.03075]	0.95024

Table 6: Confidence intervals for algorithm Ameva (α=0.95)

3 Detailed results for Bayesian

3.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	372.5	447.5	≥ 0.2	1
Ameva	63.0	757.0	≥ 0.2	1
CACC	115.0	705.0	≥ 0.2	1
CADD	646.5	142.5	0.03839	0.03778
CAIM	15.0	805.0	≥ 0.2	1
Chi2	73.0	707.0	≥ 0.2	1
ChiMerge	31.0	789.0	≥ 0.2	1
ClusterAnalysis	370.5	414.5	≥ 0.2	1
DIBD	212.5	607.5	≥ 0.2	1
Distance	95.0	725.0	≥ 0.2	1
EqualFrequency	116.5	703.5	≥ 0.2	1
EqualWidth	149.0	634.0	≥ 0.2	1
Extended Chi2	123.0	660.0	≥ 0.2	1
FFD	234.5	550.5	≥ 0.2	1
FUSINTER	58.0	762.0	≥ 0.2	1
HDD	243.5	576.5	≥ 0.2	1
HellingerBD	127.0	693.0	≥ 0.2	1
Heter-Disc	547.5	272.5	≥ 0.2	0.336939
ID3	470.0	350.0	≥ 0.2	1
IDD	375.0	412.0	≥ 0.2	1
Khiops	137.0	643.0	≥ 0.2	1
MDLP	74.0	706.0	≥ 0.2	1
Modified Chi2	115.5	669.5	≥ 0.2	1
MODL	74.5	745.5	≥ 0.2	1
MVD	349.0	471.0	≥ 0.2	1
PKID	243.5	541.5	≥ 0.2	1
UCPD	98.0	722.0	≥ 0.2	1
USD	243.0	577.0	≥ 0.2	1
Zeta	32.0	788.0	≥ 0.2	1

Table 7: Results obtained by the Wilcoxon test for algorithm Bayesian

3.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[-0.0562 , 0.03435]	0.90276
Ameva	[-0.2175 , -0.10225]	0.90276
CACC	[-0.19955 , -0.07045]	0.90276
CADD	[0.05295 , 0.2548]	0.90276
CAIM	[-0.2312 , -0.1282]	0.90276
Chi2	[-0.1928 , -0.0632]	0.90276
ChiMerge	[-0.21605 , -0.1112]	0.90276
ClusterAnalysis	[-0.0336 , 0.02425]	0.90276
DIBD	[-0.1427 , -0.02685]	0.90276
Distance	[-0.2226 , -0.0888]	0.90276
EqualFrequency	[-0.14215 , -0.0589]	0.90276
EqualWidth	[-0.1269 , -0.04745]	0.90276
Extended Chi2	[-0.13715 , -0.03605]	0.90276
FFD	[-0.09725 , -0.00925]	0.90276
FUSINTER	[-0.2217 , -0.0982]	0.90276
HDD	[-0.0985 , -0.0111]	0.90276
HellingerBD	[-0.18015 , -0.06225]	0.90276
Heter-Disc	[0.00725 , 0.1471]	0.90276
ID3	[-0.01475 , 0.04775]	0.90276
IDD	[-0.0199 , 0.0175]	0.90276
Khiops	[-0.192 , -0.06905]	0.90276
MDLP	[-0.2207 , -0.08615]	0.90276
Modified Chi2	[-0.1618 , -0.0453]	0.90276
MODL	[-0.1519 , -0.05605]	0.90276
MVD	[-0.0599 , 0.0159]	0.90276
PKID	[-0.068 , -0.00695]	0.90276
UCPD	[-0.1889 , -0.08255]	0.90276
USD	[-0.0374 , -0.004]	0.90276
Zeta	[-0.2001 , -0.0961]	0.90276

Table 8: Confidence intervals for algorithm Bayesian (α=0.90)

α=0.95	Confidence interval	Exact confidence
1R	[-0.0707 , 0.07255]	0.95024
Ameva	[-0.2286 , -0.09395]	0.95024
CACC	[-0.20985 , -0.062]	0.95024
CADD	[0.03765 , 0.27925]	0.95024
CAIM	[-0.2395 , -0.11355]	0.95024
Chi2	[-0.20245 , -0.05135]	0.95024
ChiMerge	[-0.22595 , -0.10225]	0.95024
ClusterAnalysis	[-0.03695 , 0.0308]	0.95024
DIBD	[-0.1577 , -0.01815]	0.95024
Distance	[-0.2326 , -0.07515]	0.95024
EqualFrequency	[-0.15005 , -0.0527]	0.95024
EqualWidth	[-0.1376 , -0.03785]	0.95024
Extended Chi2	[-0.15275 , -0.03095]	0.95024
FFD	[-0.1054 , -0.0049]	0.95024
FUSINTER	[-0.2304 , -0.088]	0.95024
HDD	[-0.11785 , -0.0064]	0.95024
HellingerBD	[-0.1902 , -0.05385]	0.95024
Heter-Disc	[-0.0007 , 0.1676]	0.95024
ID3	[-0.01825 , 0.0556]	0.95024
IDD	[-0.0242 , 0.0399]	0.95024
Khiops	[-0.2055 , -0.05605]	0.95024
MDLP	[-0.2387 , -0.0683]	0.95024
Modified Chi2	[-0.17595 , -0.0379]	0.95024
MODL	[-0.1618 , -0.04845]	0.95024
MVD	[-0.0683 , 0.0253]	0.95024
PKID	[-0.07475 , -0.00095]	0.95024
UCPD	[-0.2037 , -0.07115]	0.95024
USD	[-0.0392 , -0.0004]	0.95024
Zeta	[-0.2081 , -0.0883]	0.95024

Table 9: Confidence intervals for algorithm Bayesian (α=0.95)

4 Detailed results for CACC

4.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	682.0	138.0	1.3154E-4	0.00025
Ameva	404.0	416.0	≥ 0.2	1
Bayesian	705.0	115.0	2.64E-5	0.000071
CADD	784.0	36.0	9.054E-9	0
CAIM	262.5	557.5	≥ 0.2	1
Chi2	449.5	370.5	≥ 0.2	0.994214
ChiMerge	357.5	462.5	≥ 0.2	1
ClusterAnalysis	696.0	124.0	5.078E-5	0.000118
DIBD	592.0	228.0	0.013558	0.014004
Distance	336.0	447.0	≥ 0.2	1
EqualFrequency	478.0	302.0	≥ 0.2	0.216824
EqualWidth	572.0	208.0	0.010196	0.010872
Extended Chi2	541.0	279.0	0.07932	0.077139
FFD	613.0	167.0	0.0013906	0.001815
FUSINTER	323.0	457.0	≥ 0.2	1
HDD	551.5	268.5	0.14238	0.135727
HellingerBD	527.5	292.5	≥ 0.2	0.254942
Heter-Disc	768.5	51.5	2.739E-7	0.000004
ID3	677.5	142.5	6.234000000000001E-4	0.00092
IDD	717.0	103.0	1.0404E-5	0.000035
Khiops	478.0	302.0	≥ 0.2	0.216022
MDLP	314.0	469.0	≥ 0.2	1
Modified Chi2	458.0	322.0	≥ 0.2	0.338271
MODL	454.0	329.0	≥ 0.2	0.728603
MVD	645.5	174.5	0.003749	0.004376
PKID	616.0	164.0	0.0011794	0.001573
UCPD	522.0	298.0	0.13508	0.130497
USD	593.0	187.0	0.003894	0.004514
Zeta	414.5	405.5	≥ 0.2	1

Table 10: Results obtained by the Wilcoxon test for algorithm CACC

4.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[0.0765 , 0.25225]	0.90276
Ameva	[-0.01545 , 0.0064]	0.90276
Bayesian	[0.07045 , 0.19955]	0.90276
CADD	[0.2426 , 0.3865]	0.90276
CAIM	[-0.0279 , -0.0016]	0.90276
Chi2	[-0.01025 , 0.01815]	0.90276
ChiMerge	[-0.03145 , 0.01005]	0.90276
ClusterAnalysis	[0.07365 , 0.18345]	0.90276
DIBD	[0.011 , 0.0746]	0.90276
Distance	[-0.01375 , 0.00485]	0.90276
EqualFrequency	[-0.00495 , 0.0452]	0.90276
EqualWidth	[0.01495 , 0.07505]	0.90276
Extended Chi2	[0.00135 , 0.0814]	0.90276
FFD	[0.0344 , 0.10835]	0.90276
FUSINTER	[-0.02515 , 0.00505]	0.90276
HDD	[0.0031 , 0.13655]	0.90276
HellingerBD	[-0.00065 , 0.04205]	0.90276
Heter-Disc	[0.13305 , 0.2564]	0.90276
ID3	[0.0683 , 0.2181]	0.90276
IDD	[0.101 , 0.23365]	0.90276
Khiops	[-0.0053 , 0.0349]	0.90276
MDLP	[-0.0229 , 0.0031]	0.90276
Modified Chi2	[-0.0115 , 0.03985]	0.90276
MODL	[-0.0083 , 0.0292]	0.90276
MVD	[0.0273 , 0.18145]	0.90276
PKID	[0.0381 , 0.12685]	0.90276
UCPD	[-0.00175 , 0.0352]	0.90276
USD	[0.0321 , 0.1385]	0.90276
Zeta	[-0.0157 , 0.0171]	0.90276

Table 11: Confidence intervals for algorithm CACC (α=0.90)

α=0.95	Confidence interval	Exact confidence
1R	[0.06365 , 0.2641]	0.95024
Ameva	[-0.01975 , 0.0086]	0.95024
Bayesian	[0.062 , 0.20985]	0.95024
CADD	[0.2283 , 0.4033]	0.95024
CAIM	[-0.03075 , -0.0001]	0.95024
Chi2	[-0.01305 , 0.02215]	0.95024
ChiMerge	[-0.0378 , 0.01285]	0.95024
ClusterAnalysis	[0.06555 , 0.1979]	0.95024
DIBD	[0.00625 , 0.0858]	0.95024
Distance	[-0.0157 , 0.0067]	0.95024
EqualFrequency	[-0.0069 , 0.05335]	0.95024
EqualWidth	[0.01095 , 0.0829]	0.95024
Extended Chi2	[-0.003 , 0.0972]	0.95024
FFD	[0.02885 , 0.12325]	0.95024
FUSINTER	[-0.0305 , 0.0089]	0.95024
HDD	[-0.0001 , 0.15535]	0.95024
HellingerBD	[-0.004 , 0.0452]	0.95024
Heter-Disc	[0.1222 , 0.26825]	0.95024
ID3	[0.0618 , 0.2297]	0.95024
IDD	[0.0876 , 0.24815]	0.95024
Khiops	[-0.0085 , 0.0372]	0.95024
MDLP	[-0.0268 , 0.00595]	0.95024
Modified Chi2	[-0.01755 , 0.0453]	0.95024
MODL	[-0.01425 , 0.03875]	0.95024
MVD	[0.02025 , 0.1934]	0.95024
PKID	[0.0294 , 0.14295]	0.95024
UCPD	[-0.00475 , 0.0386]	0.95024
USD	[0.0256 , 0.154]	0.95024
Zeta	[-0.01925 , 0.0204]	0.95024

Table 12: Confidence intervals for algorithm CACC (α=0.95)

5 Detailed results for CADD

5.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	85.5	703.5	≥ 0.2	1
Ameva	14.0	806.0	≥ 0.2	1
Bayesian	142.5	646.5	≥ 0.2	1
CACC	36.0	784.0	≥ 0.2	1
CAIM	3.0	817.0	≥ 0.2	1
Chi2	17.5	802.5	≥ 0.2	1
ChiMerge	4.0	816.0	≥ 0.2	1
ClusterAnalysis	113.5	706.5	≥ 0.2	1
DIBD	19.0	764.0	≥ 0.2	1
Distance	20.0	800.0	≥ 0.2	1
EqualFrequency	12.5	772.5	≥ 0.2	1
EqualWidth	5.0	815.0	≥ 0.2	1
Extended Chi2	62.5	722.5	≥ 0.2	1
FFD	50.0	737.0	≥ 0.2	1
FUSINTER	6.0	814.0	≥ 0.2	1
HDD	99.0	721.0	≥ 0.2	1
HellingerBD	1.0	819.0	≥ 0.2	1
Heter-Disc	313.0	507.0	≥ 0.2	1
ID3	222.5	597.5	≥ 0.2	1
IDD	102.0	718.0	≥ 0.2	1
Khiops	4.0	776.0	≥ 0.2	1
MDLP	10.0	770.0	≥ 0.2	1
Modified Chi2	19.5	765.5	≥ 0.2	1
MODL	28.5	791.5	≥ 0.2	1
MVD	119.5	669.5	≥ 0.2	1
PKID	78.0	709.0	≥ 0.2	1
UCPD	5.0	815.0	≥ 0.2	1
USD	97.0	690.0	≥ 0.2	1
Zeta	3.0	817.0	≥ 0.2	1

Table 13: Results obtained by the Wilcoxon test for algorithm CADD

5.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[-0.161 , -0.06145]	0.90276
Ameva	[-0.40985 , -0.2637]	0.90276
Bayesian	[-0.2548 , -0.05295]	0.90276
CACC	[-0.3865 , -0.2426]	0.90276
CAIM	[-0.43765 , -0.29355]	0.90276
Chi2	[-0.41765 , -0.2521]	0.90276
ChiMerge	[-0.43005 , -0.2751]	0.90276
ClusterAnalysis	[-0.2469 , -0.1016]	0.90276
DIBD	[-0.3549 , -0.20655]	0.90276
Distance	[-0.42425 , -0.2728]	0.90276
EqualFrequency	[-0.36245 , -0.20995]	0.90276
EqualWidth	[-0.343 , -0.19665]	0.90276
Extended Chi2	[-0.3599 , -0.1859]	0.90276
FFD	[-0.32035 , -0.1503]	0.90276
FUSINTER	[-0.44335 , -0.281]	0.90276
HDD	[-0.3362 , -0.1549]	0.90276
HellingerBD	[-0.3787 , -0.2372]	0.90276
Heter-Disc	[-0.19575 , 0]	0.90276
ID3	[-0.24665 , -0.04095]	0.90276
IDD	[-0.1703 , -0.0291]	0.90276
Khiops	[-0.39985 , -0.2459]	0.90276
MDLP	[-0.4244 , -0.28075]	0.90276
Modified Chi2	[-0.3862 , -0.22575]	0.90276
MODL	[-0.37805 , -0.2151]	0.90276
MVD	[-0.25615 , -0.11275]	0.90276
PKID	[-0.31125 , -0.1151]	0.90276
UCPD	[-0.3996 , -0.24735]	0.90276
USD	[-0.33055 , -0.1224]	0.90276
Zeta	[-0.4143 , -0.26005]	0.90276

Table 14: Confidence intervals for algorithm CADD (α=0.90)

α=0.95	Confidence interval	Exact confidence
1R	[-0.1735 , -0.0537]	0.95024
Ameva	[-0.4208 , -0.25015]	0.95024
Bayesian	[-0.27925 , -0.03765]	0.95024
CACC	[-0.4033 , -0.2283]	0.95024
CAIM	[-0.4561 , -0.2804]	0.95024
Chi2	[-0.43045 , -0.23835]	0.95024
ChiMerge	[-0.44445 , -0.2633]	0.95024
ClusterAnalysis	[-0.2657 , -0.089]	0.95024
DIBD	[-0.3666 , -0.1926]	0.95024
Distance	[-0.4356 , -0.2637]	0.95024
EqualFrequency	[-0.3806 , -0.19675]	0.95024
EqualWidth	[-0.3548 , -0.1843]	0.95024
Extended Chi2	[-0.37785 , -0.17]	0.95024
FFD	[-0.33155 , -0.1247]	0.95024
FUSINTER	[-0.4566 , -0.2721]	0.95024
HDD	[-0.3533 , -0.1347]	0.95024
HellingerBD	[-0.3909 , -0.22745]	0.95024
Heter-Disc	[-0.22735 , 0.0093]	0.95024
ID3	[-0.2636 , -0.0161]	0.95024
IDD	[-0.17805 , -0.02825]	0.95024
Khiops	[-0.4136 , -0.2339]	0.95024
MDLP	[-0.443 , -0.26945]	0.95024
Modified Chi2	[-0.411 , -0.20835]	0.95024
MODL	[-0.40005 , -0.20425]	0.95024
MVD	[-0.26755 , -0.08965]	0.95024
PKID	[-0.3342 , -0.0997]	0.95024
UCPD	[-0.4166 , -0.2338]	0.95024
USD	[-0.3446 , -0.10885]	0.95024
Zeta	[-0.4295 , -0.2458]	0.95024

Table 15: Confidence intervals for algorithm CADD (α=0.95)

6 Detailed results for CAIM

6.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	756.0	64.0	2.822E-7	0.000003
Ameva	476.5	308.5	≥ 0.2	0.908719
Bayesian	805.0	15.0	2.492E-10	0
CACC	557.5	262.5	0.11987	0.115604
CADD	817.0	3.0	9.094E-12	0
Chi2	582.5	237.5	0.05398	0.052861
ChiMerge	457.5	325.5	≥ 0.2	0.688757
ClusterAnalysis	771.0	49.0	5.064E-8	0.000001
DIBD	678.0	142.0	1.703E-4	0.000307
Distance	465.5	354.5	≥ 0.2	0.810883
EqualFrequency	631.0	149.0	4.954E-4	0.000751
EqualWidth	683.0	97.0	1.2454E-5	0.000041
Extended Chi2	678.5	141.5	1.6502E-4	0.000286
FFD	757.5	62.5	9.527E-7	0.000008
FUSINTER	472.0	308.0	≥ 0.2	0.249614
HDD	672.0	119.0	0.03262	0.032298
HellingerBD	635.0	145.0	3.88E-4	0.000613
Heter-Disc	778.0	42.0	2.07E-8	0.000001
ID3	743.5	39.5	1.184E-7	0.000002
IDD	795.0	25.0	1.6444E-9	0
Khiops	590.0	230.0	0.04138	0.040508
MDLP	430.5	389.5	≥ 0.2	1
Modified Chi2	582.0	198.0	0.00654	0.007123
MODL	625.5	194.5	0.009784999999999999	0.010478
MVD	689.0	91.0	7.486E-6	0.000029
PKID	737.0	43.0	4.722E-8	0.000001
UCPD	582.0	238.0	0.019988	0.020415
USD	719.0	64.0	2.218E-6	0.000014
Zeta	601.0	186.0	0.09332	0.088897

Table 16: Results obtained by the Wilcoxon test for algorithm CAIM

6.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[0.11815 , 0.2809]	0.90276
Ameva	[-0.00265 , 0.02105]	0.90276
Bayesian	[0.1282 , 0.2312]	0.90276
CACC	[0.0016 , 0.0279]	0.90276
CADD	[0.29355 , 0.43765]	0.90276
Chi2	[0.00585 , 0.04295]	0.90276
ChiMerge	[-0.0046 , 0.01665]	0.90276
ClusterAnalysis	[0.12215 , 0.2265]	0.90276
DIBD	[0.0291 , 0.09035]	0.90276
Distance	[-0.00535 , 0.01925]	0.90276
EqualFrequency	[0.02655 , 0.0797]	0.90276
EqualWidth	[0.04875 , 0.11445]	0.90276
Extended Chi2	[0.0288 , 0.11295]	0.90276
FFD	[0.0745 , 0.16195]	0.90276
FUSINTER	[-0.0051 , 0.0271]	0.90276
HDD	[0.04805 , 0.15185]	0.90276
HellingerBD	[0.02555 , 0.07435]	0.90276
Heter-Disc	[0.1817 , 0.3302]	0.90276
ID3	[0.13475 , 0.25]	0.90276
IDD	[0.14405 , 0.2612]	0.90276
Khiops	[0.01255 , 0.05365]	0.90276
MDLP	[-0.00875 , 0.02085]	0.90276
Modified Chi2	[0.0168 , 0.07265]	0.90276
MODL	[0.01065 , 0.07935]	0.90276
MVD	[0.08205 , 0.2188]	0.90276
PKID	[0.0872 , 0.16725]	0.90276
UCPD	[0.0105 , 0.0538]	0.90276
USD	[0.0714 , 0.17855]	0.90276
Zeta	[0.0041 , 0.02525]	0.90276

Table 17: Confidence intervals for algorithm CAIM (α=0.90)

α=0.95	Confidence interval	Exact confidence
1R	[0.10385 , 0.2966]	0.95024
Ameva	[-0.00385 , 0.02245]	0.95024
Bayesian	[0.11355 , 0.2395]	0.95024
CACC	[0.0001 , 0.03075]	0.95024
CADD	[0.2804 , 0.4561]	0.95024
Chi2	[0.00305 , 0.0512]	0.95024
ChiMerge	[-0.00685 , 0.0189]	0.95024
ClusterAnalysis	[0.11555 , 0.23645]	0.95024
DIBD	[0.0244 , 0.09835]	0.95024
Distance	[-0.0081 , 0.02335]	0.95024
EqualFrequency	[0.0219 , 0.08915]	0.95024
EqualWidth	[0.04315 , 0.1201]	0.95024
Extended Chi2	[0.0237 , 0.1214]	0.95024
FFD	[0.0715 , 0.17135]	0.95024
FUSINTER	[-0.0076 , 0.0314]	0.95024
HDD	[0.046 , 0.16125]	0.95024
HellingerBD	[0.02175 , 0.0785]	0.95024
Heter-Disc	[0.1723 , 0.3538]	0.95024
ID3	[0.12645 , 0.25895]	0.95024
IDD	[0.13525 , 0.26965]	0.95024
Khiops	[0.00715 , 0.0579]	0.95024
MDLP	[-0.01155 , 0.0253]	0.95024
Modified Chi2	[0.0111 , 0.0802]	0.95024
MODL	[0.00875 , 0.0912]	0.95024
MVD	[0.0713 , 0.23335]	0.95024
PKID	[0.08105 , 0.17535]	0.95024
UCPD	[0.00515 , 0.0587]	0.95024
USD	[0.0635 , 0.18935]	0.95024
Zeta	[0.00325 , 0.02665]	0.95024

Table 18: Confidence intervals for algorithm CAIM (α=0.95)

7 Detailed results for Chi2

7.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	655.0	125.0	1.046E-4	0.000211
Ameva	367.5	452.5	≥ 0.2	1
Bayesian	707.0	73.0	1.4158E-6	0.000009
CACC	370.5	449.5	≥ 0.2	1
CADD	802.5	17.5	1.6735E-9	0
CAIM	237.5	582.5	≥ 0.2	1
ChiMerge	261.5	523.5	≥ 0.2	1
ClusterAnalysis	693.0	87.0	5.268E-6	0.000023
DIBD	564.0	256.0	0.03812	0.037831
Distance	374.5	445.5	≥ 0.2	1
EqualFrequency	512.5	307.5	≥ 0.2	0.357106
EqualWidth	636.5	183.5	0.005855	0.006544
Extended Chi2	529.5	290.5	≥ 0.2	0.243035
FFD	692.5	127.5	2.368E-4	0.000414
FUSINTER	303.5	516.5	≥ 0.2	1
HDD	550.5	269.5	≥ 0.2	0.313716
HellingerBD	514.0	266.0	0.08484	0.082317
Heter-Disc	752.5	67.5	1.6132E-6	0.00001
ID3	678.5	106.5	3.691E-4	0.000619
IDD	742.5	77.5	4.34E-6	0.000021
Khiops	472.5	347.5	≥ 0.2	0.733252
MDLP	306.5	513.5	≥ 0.2	1
Modified Chi2	468.0	319.0	≥ 0.2	1
MODL	421.0	399.0	≥ 0.2	1
MVD	627.5	192.5	0.008935	0.009504
PKID	673.0	110.0	1.3066E-4	0.000261
UCPD	492.0	328.0	≥ 0.2	0.26747
USD	626.0	194.0	0.02832	0.028407
Zeta	396.5	423.5	≥ 0.2	1

Table 19: Results obtained by the Wilcoxon test for algorithm Chi2

7.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[0.05825 , 0.2614]	0.90276
Ameva	[-0.0302 , 0.0086]	0.90276
Bayesian	[0.0632 , 0.1928]	0.90276
CACC	[-0.01815 , 0.01025]	0.90276
CADD	[0.2521 , 0.41765]	0.90276
CAIM	[-0.04295 , -0.00585]	0.90276
ChiMerge	[-0.03605 , -0.0008]	0.90276
ClusterAnalysis	[0.0839 , 0.1865]	0.90276
DIBD	[0.00545 , 0.04755]	0.90276
Distance	[-0.0206 , 0.00925]	0.90276
EqualFrequency	[-0.00325 , 0.0514]	0.90276
EqualWidth	[0.01965 , 0.0689]	0.90276
Extended Chi2	[-0.0001 , 0.05865]	0.90276
FFD	[0.03285 , 0.11205]	0.90276
FUSINTER	[-0.0177 , 0.0012]	0.90276
HDD	[0.00105 , 0.104]	0.90276
HellingerBD	[0.00185 , 0.048]	0.90276
Heter-Disc	[0.13245 , 0.28825]	0.90276
ID3	[0.0808 , 0.2291]	0.90276
IDD	[0.09965 , 0.24105]	0.90276
Khiops	[-0.0096 , 0.02975]	0.90276
MDLP	[-0.02795 , 0.00205]	0.90276
Modified Chi2	[-0.00145 , 0.0279]	0.90276
MODL	[-0.0141 , 0.01945]	0.90276
MVD	[0.02705 , 0.1954]	0.90276
PKID	[0.0404 , 0.121]	0.90276
UCPD	[-0.00635 , 0.0299]	0.90276
USD	[0.021 , 0.1319]	0.90276
Zeta	[-0.02895 , 0.0144]	0.90276

Table 20: Confidence intervals for algorithm Chi2 (α=0.90)

α=0.95	Confidence interval	Exact confidence
1R	[0.0501 , 0.2749]	0.95024
Ameva	[-0.03955 , 0.0119]	0.95024
Bayesian	[0.05135 , 0.20245]	0.95024
CACC	[-0.02215 , 0.01305]	0.95024
CADD	[0.23835 , 0.43045]	0.95024
CAIM	[-0.0512 , -0.00305]	0.95024
ChiMerge	[-0.0405 , 0.00005]	0.95024
ClusterAnalysis	[0.071 , 0.1975]	0.95024
DIBD	[0.00185 , 0.0522]	0.95024
Distance	[-0.0249 , 0.01215]	0.95024
EqualFrequency	[-0.0073 , 0.05685]	0.95024
EqualWidth	[0.0169 , 0.07745]	0.95024
Extended Chi2	[-0.00155 , 0.06745]	0.95024
FFD	[0.0293 , 0.12475]	0.95024
FUSINTER	[-0.02075 , 0.0024]	0.95024
HDD	[0 , 0.1222]	0.95024
HellingerBD	[-0.00405 , 0.05115]	0.95024
Heter-Disc	[0.1171 , 0.3045]	0.95024
ID3	[0.06235 , 0.2359]	0.95024
IDD	[0.0794 , 0.2496]	0.95024
Khiops	[-0.01345 , 0.0329]	0.95024
MDLP	[-0.0313 , 0.0045]	0.95024
Modified Chi2	[-0.0038 , 0.0318]	0.95024
MODL	[-0.0176 , 0.0237]	0.95024
MVD	[0.0187 , 0.2054]	0.95024
PKID	[0.0352 , 0.129]	0.95024
UCPD	[-0.01135 , 0.03305]	0.95024
USD	[0.0156 , 0.14985]	0.95024
Zeta	[-0.0327 , 0.0168]	0.95024

Table 21: Confidence intervals for algorithm Chi2 (α=0.95)

8 Detailed results for ChiMerge

8.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	758.0	62.0	2.276E-7	0.000003
Ameva	445.5	337.5	≥ 0.2	0.826522
Bayesian	789.0	31.0	4.32E-9	0
CACC	462.5	357.5	≥ 0.2	0.844782
CADD	816.0	4.0	1.2732E-11	0
CAIM	325.5	457.5	≥ 0.2	1
Chi2	523.5	261.5	≥ 0.2	0.376441
ClusterAnalysis	770.0	50.0	5.724E-8	0.000001
DIBD	646.0	174.0	0.0011066	0.001479
Distance	406.0	377.0	≥ 0.2	1
EqualFrequency	629.0	151.0	5.586E-4	0.000814
EqualWidth	688.0	92.0	8.162E-6	0.000031
Extended Chi2	644.0	176.0	0.0012308	0.001622
FFD	711.0	69.0	9.468E-7	0.000007
FUSINTER	415.5	404.5	≥ 0.2	1
HDD	667.5	152.5	0.0011335	0.001531
HellingerBD	622.0	158.0	8.41E-4	0.001153
Heter-Disc	787.0	33.0	5.844E-9	0
ID3	765.5	54.5	3.898E-7	0.000004
IDD	793.0	27.0	2.294E-9	0
Khiops	522.0	258.0	0.0661	0.064452
MDLP	360.0	423.0	≥ 0.2	1
Modified Chi2	556.5	226.5	0.059789999999999996	0.05784
MODL	553.5	231.5	0.1762	0.168869
MVD	732.0	88.0	2.924E-6	0.000015
PKID	724.0	56.0	2.32E-7	0.000003
UCPD	566.0	254.0	0.0356	0.035417
USD	711.0	69.0	9.468E-7	0.000007
Zeta	560.0	260.0	≥ 0.2	0.248202

Table 22: Results obtained by the Wilcoxon test for algorithm ChiMerge

8.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[0.0952 , 0.27925]	0.90276
Ameva	[-0.0046 , 0.0149]	0.90276
Bayesian	[0.1112 , 0.21605]	0.90276
CACC	[-0.01005 , 0.03145]	0.90276
CADD	[0.2751 , 0.43005]	0.90276
CAIM	[-0.01665 , 0.0046]	0.90276
Chi2	[0.0008 , 0.03605]	0.90276
ClusterAnalysis	[0.1163 , 0.20975]	0.90276
DIBD	[0.02465 , 0.07855]	0.90276
Distance	[-0.01795 , 0.0225]	0.90276
EqualFrequency	[0.0229 , 0.0682]	0.90276
EqualWidth	[0.04415 , 0.1028]	0.90276
Extended Chi2	[0.0295 , 0.09]	0.90276
FFD	[0.07235 , 0.1477]	0.90276
FUSINTER	[-0.0122 , 0.01405]	0.90276
HDD	[0.04525 , 0.141]	0.90276
HellingerBD	[0.02135 , 0.0613]	0.90276
Heter-Disc	[0.1716 , 0.3169]	0.90276
ID3	[0.1263 , 0.23975]	0.90276
IDD	[0.1248 , 0.25025]	0.90276
Khiops	[0.00295 , 0.0464]	0.90276
MDLP	[-0.02165 , 0.012]	0.90276
Modified Chi2	[0.00765 , 0.0614]	0.90276
MODL	[0.00335 , 0.06195]	0.90276
MVD	[0.07345 , 0.2046]	0.90276
PKID	[0.08405 , 0.14995]	0.90276
UCPD	[0.0047 , 0.05165]	0.90276
USD	[0.0681 , 0.159]	0.90276
Zeta	[0.002 , 0.02675]	0.90276

Table 23: Confidence intervals for algorithm ChiMerge (α=0.90)

α=0.95	Confidence interval	Exact confidence
1R	[0.08395 , 0.2924]	0.95024
Ameva	[-0.006 , 0.01765]	0.95024
Bayesian	[0.10225 , 0.22595]	0.95024
CACC	[-0.01285 , 0.0378]	0.95024
CADD	[0.2633 , 0.44445]	0.95024
CAIM	[-0.0189 , 0.00685]	0.95024
Chi2	[-0.00005 , 0.0405]	0.95024
ClusterAnalysis	[0.10945 , 0.2201]	0.95024
DIBD	[0.0182 , 0.08345]	0.95024
Distance	[-0.0213 , 0.0276]	0.95024
EqualFrequency	[0.0196 , 0.0743]	0.95024
EqualWidth	[0.0405 , 0.1109]	0.95024
Extended Chi2	[0.0216 , 0.09695]	0.95024
FFD	[0.06615 , 0.153]	0.95024
FUSINTER	[-0.01495 , 0.0165]	0.95024
HDD	[0.03645 , 0.15385]	0.95024
HellingerBD	[0.01815 , 0.0663]	0.95024
Heter-Disc	[0.1563 , 0.3306]	0.95024
ID3	[0.1187 , 0.24945]	0.95024
IDD	[0.1142 , 0.2607]	0.95024
Khiops	[-0.00135 , 0.0503]	0.95024
MDLP	[-0.02545 , 0.01815]	0.95024
Modified Chi2	[0.00305 , 0.06695]	0.95024
MODL	[0.0012 , 0.07185]	0.95024
MVD	[0.06505 , 0.2161]	0.95024
PKID	[0.0769 , 0.1607]	0.95024
UCPD	[0.00135 , 0.05465]	0.95024
USD	[0.0614 , 0.16915]	0.95024
Zeta	[0.0003 , 0.0296]	0.95024

Table 24: Confidence intervals for algorithm ChiMerge (α=0.95)

9 Detailed results for ClusterAnalysis

9.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	364.0	419.0	≥ 0.2	1
Ameva	83.0	697.0	≥ 0.2	1
Bayesian	414.5	370.5	≥ 0.2	1
CACC	124.0	696.0	≥ 0.2	1
CADD	706.5	113.5	0.0011553000000000002	0.001572
CAIM	49.0	771.0	≥ 0.2	1
Chi2	87.0	693.0	≥ 0.2	1
ChiMerge	50.0	770.0	≥ 0.2	1
DIBD	204.0	576.0	≥ 0.2	1
Distance	92.0	728.0	≥ 0.2	1
EqualFrequency	61.0	759.0	≥ 0.2	1
EqualWidth	112.0	671.0	≥ 0.2	1
Extended Chi2	167.5	652.5	≥ 0.2	1
FFD	211.0	609.0	≥ 0.2	1
FUSINTER	45.0	775.0	≥ 0.2	1
HDD	222.5	562.5	≥ 0.2	1
HellingerBD	81.5	698.5	≥ 0.2	1
Heter-Disc	552.5	232.5	0.18155	0.173998
ID3	415.0	372.0	≥ 0.2	1
IDD	436.5	348.5	≥ 0.2	1
Khiops	87.0	693.0	≥ 0.2	1
MDLP	63.5	716.5	≥ 0.2	1
Modified Chi2	69.0	714.0	≥ 0.2	1
MODL	57.0	723.0	≥ 0.2	1
MVD	383.5	436.5	≥ 0.2	1
PKID	265.0	555.0	≥ 0.2	1
UCPD	66.0	754.0	≥ 0.2	1
USD	282.0	538.0	≥ 0.2	1
Zeta	63.0	757.0	≥ 0.2	1

Table 25: Results obtained by the Wilcoxon test for algorithm ClusterAnalysis

9.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[-0.06745 , 0.07495]	0.90276
Ameva	[-0.2057 , -0.09615]	0.90276
Bayesian	[-0.02425 , 0.0336]	0.90276
CACC	[-0.18345 , -0.07365]	0.90276
CADD	[0.1016 , 0.2469]	0.90276
CAIM	[-0.2265 , -0.12215]	0.90276
Chi2	[-0.1865 , -0.0839]	0.90276
ChiMerge	[-0.20975 , -0.1163]	0.90276
DIBD	[-0.1499 , -0.03425]	0.90276
Distance	[-0.21885 , -0.09745]	0.90276
EqualFrequency	[-0.1231 , -0.07]	0.90276
EqualWidth	[-0.1077 , -0.03755]	0.90276
Extended Chi2	[-0.1262 , -0.04385]	0.90276
FFD	[-0.0741 , -0.011]	0.90276
FUSINTER	[-0.21365 , -0.10385]	0.90276
HDD	[-0.0884 , -0.00895]	0.90276
HellingerBD	[-0.1509 , -0.05735]	0.90276
Heter-Disc	[0.0164 , 0.155]	0.90276
ID3	[-0.0104 , 0.0418]	0.90276
IDD	[-0.0312 , 0.073]	0.90276
Khiops	[-0.17955 , -0.07525]	0.90276
MDLP	[-0.2186 , -0.0986]	0.90276
Modified Chi2	[-0.15945 , -0.0591]	0.90276
MODL	[-0.14475 , -0.06885]	0.90276
MVD	[-0.055 , 0.02975]	0.90276
PKID	[-0.0653 , -0.0017]	0.90276
UCPD	[-0.172 , -0.0821]	0.90276
USD	[-0.05885 , 0]	0.90276
Zeta	[-0.1919 , -0.0996]	0.90276

Table 26: Confidence intervals for algorithm ClusterAnalysis (α=0.90)

α=0.95	Confidence interval	Exact confidence
1R	[-0.0754 , 0.0894]	0.95024
Ameva	[-0.2181 , -0.0859]	0.95024
Bayesian	[-0.0308 , 0.03695]	0.95024
CACC	[-0.1979 , -0.06555]	0.95024
CADD	[0.089 , 0.2657]	0.95024
CAIM	[-0.23645 , -0.11555]	0.95024
Chi2	[-0.1975 , -0.071]	0.95024
ChiMerge	[-0.2201 , -0.10945]	0.95024
DIBD	[-0.1617 , -0.02205]	0.95024
Distance	[-0.22845 , -0.08745]	0.95024
EqualFrequency	[-0.1312 , -0.0617]	0.95024
EqualWidth	[-0.11735 , -0.0347]	0.95024
Extended Chi2	[-0.13615 , -0.03605]	0.95024
FFD	[-0.0761 , -0.00855]	0.95024
FUSINTER	[-0.22415 , -0.0968]	0.95024
HDD	[-0.10335 , -0.00655]	0.95024
HellingerBD	[-0.1678 , -0.0517]	0.95024
Heter-Disc	[0.0057 , 0.16835]	0.95024
ID3	[-0.01565 , 0.0537]	0.95024
IDD	[-0.036 , 0.08435]	0.95024
Khiops	[-0.1908 , -0.066]	0.95024
MDLP	[-0.2277 , -0.0907]	0.95024
Modified Chi2	[-0.1706 , -0.05425]	0.95024
MODL	[-0.15205 , -0.0614]	0.95024
MVD	[-0.0715 , 0.0404]	0.95024
PKID	[-0.0716 , 0]	0.95024
UCPD	[-0.1838 , -0.07405]	0.95024
USD	[-0.06925 , 0.0011]	0.95024
Zeta	[-0.2027 , -0.0927]	0.95024

Table 27: Confidence intervals for algorithm ClusterAnalysis (α=0.95)

10 Detailed results for DIBD

10.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	624.0	156.0	7.494E-4	0.001066
Ameva	234.0	586.0	≥ 0.2	1
Bayesian	607.5	212.5	0.02114	0.021527
CACC	228.0	592.0	≥ 0.2	1
CADD	764.0	19.0	4.468E-9	0.000001
CAIM	142.0	678.0	≥ 0.2	1
Chi2	256.0	564.0	≥ 0.2	1
ChiMerge	174.0	646.0	≥ 0.2	1
ClusterAnalysis	576.0	204.0	0.008562	0.009252
Distance	141.5	678.5	≥ 0.2	1
EqualFrequency	379.5	440.5	≥ 0.2	1
EqualWidth	452.0	368.0	≥ 0.2	0.567827
Extended Chi2	389.0	431.0	≥ 0.2	1
FFD	525.0	255.0	0.06	0.058637
FUSINTER	159.5	660.5	≥ 0.2	1
HDD	453.0	367.0	≥ 0.2	0.558752
HellingerBD	347.0	473.0	≥ 0.2	1
Heter-Disc	719.5	100.5	3.238E-5	0.000088
ID3	603.0	217.0	0.008622	0.009298
IDD	646.0	134.0	1.9234E-4	0.000344
Khiops	257.0	563.0	≥ 0.2	1
MDLP	103.0	677.0	≥ 0.2	1
Modified Chi2	327.0	493.0	≥ 0.2	1
MODL	305.0	515.0	≥ 0.2	1
MVD	526.0	257.0	0.15786	0.151802
PKID	538.0	282.0	0.08666	0.084131
UCPD	249.0	571.0	≥ 0.2	1
USD	525.0	295.0	0.12472	0.12055
Zeta	244.0	576.0	≥ 0.2	1

Table 28: Results obtained by the Wilcoxon test for algorithm DIBD

10.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[0.0446 , 0.19265]	0.90276
Ameva	[-0.0895 , -0.01855]	0.90276
Bayesian	[0.02685 , 0.1427]	0.90276
CACC	[-0.0746 , -0.011]	0.90276
CADD	[0.20655 , 0.3549]	0.90276
CAIM	[-0.09035 , -0.0291]	0.90276
Chi2	[-0.04755 , -0.00545]	0.90276
ChiMerge	[-0.07855 , -0.02465]	0.90276
ClusterAnalysis	[0.03425 , 0.1499]	0.90276
Distance	[-0.0901 , -0.02285]	0.90276
EqualFrequency	[-0.03695 , 0.0176]	0.90276
EqualWidth	[-0.02055 , 0.03965]	0.90276
Extended Chi2	[-0.0398 , 0.04495]	0.90276
FFD	[0.00575 , 0.09605]	0.90276
FUSINTER	[-0.08285 , -0.02335]	0.90276
HDD	[-0.0259 , 0.0911]	0.90276
HellingerBD	[-0.05205 , 0.0147]	0.90276
Heter-Disc	[0.0678 , 0.24405]	0.90276
ID3	[0.0466 , 0.1919]	0.90276
IDD	[0.06695 , 0.18245]	0.90276
Khiops	[-0.0639 , -0.0057]	0.90276
MDLP	[-0.08035 , -0.0334]	0.90276
Modified Chi2	[-0.0484 , 0.00895]	0.90276
MODL	[-0.05345 , 0.00565]	0.90276
MVD	[0.00455 , 0.12895]	0.90276
PKID	[0.0024 , 0.10115]	0.90276
UCPD	[-0.06675 , -0.0053]	0.90276
USD	[-0.0029 , 0.1161]	0.90276
Zeta	[-0.06335 , -0.0107]	0.90276

Table 29: Confidence intervals for algorithm DIBD (α=0.90)

α=0.95	Confidence interval	Exact confidence
1R	[0.03555 , 0.2074]	0.95024
Ameva	[-0.09505 , -0.01065]	0.95024
Bayesian	[0.01815 , 0.1577]	0.95024
CACC	[-0.0858 , -0.00625]	0.95024
CADD	[0.1926 , 0.3666]	0.95024
CAIM	[-0.09835 , -0.0244]	0.95024
Chi2	[-0.0522 , -0.00185]	0.95024
ChiMerge	[-0.08345 , -0.0182]	0.95024
ClusterAnalysis	[0.02205 , 0.1617]	0.95024
Distance	[-0.097 , -0.019]	0.95024
EqualFrequency	[-0.04155 , 0.0229]	0.95024
EqualWidth	[-0.02835 , 0.04555]	0.95024
Extended Chi2	[-0.0458 , 0.05605]	0.95024
FFD	[-0.0024 , 0.1014]	0.95024
FUSINTER	[-0.0943 , -0.01615]	0.95024
HDD	[-0.036 , 0.1032]	0.95024
HellingerBD	[-0.0604 , 0.0206]	0.95024
Heter-Disc	[0.06025 , 0.25645]	0.95024
ID3	[0.0328 , 0.2041]	0.95024
IDD	[0.05485 , 0.19495]	0.95024
Khiops	[-0.0729 , -0.0009]	0.95024
MDLP	[-0.0862 , -0.0295]	0.95024
Modified Chi2	[-0.05575 , 0.0167]	0.95024
MODL	[-0.05855 , 0.0117]	0.95024
MVD	[-0.0037 , 0.1546]	0.95024
PKID	[-0.0057 , 0.11185]	0.95024
UCPD	[-0.0777 , -0.00235]	0.95024
USD	[-0.01105 , 0.13295]	0.95024
Zeta	[-0.071 , -0.0045]	0.95024

Table 30: Confidence intervals for algorithm DIBD (α=0.95)

11 Detailed results for Distance

11.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	721.0	99.0	7.508E-6	0.000028
Ameva	406.5	376.5	≥ 0.2	1
Bayesian	725.0	95.0	5.372E-6	0.000022
CACC	447.0	336.0	≥ 0.2	0.80926
CADD	800.0	20.0	6.748E-10	0
CAIM	354.5	465.5	≥ 0.2	1
Chi2	445.5	374.5	≥ 0.2	1
ChiMerge	377.0	406.0	≥ 0.2	1
ClusterAnalysis	728.0	92.0	4.154E-6	0.000019
DIBD	678.5	141.5	1.6502E-4	0.000286
EqualFrequency	542.0	238.0	0.03344	0.033326
EqualWidth	608.0	172.0	0.0018188	0.002254
Extended Chi2	545.0	275.0	0.07034	0.068562
FFD	660.0	120.0	7.348E-5	0.00016
FUSINTER	307.0	473.0	≥ 0.2	1
HDD	591.0	229.0	0.0399	0.039107
HellingerBD	583.5	236.5	0.05214	0.050271
Heter-Disc	765.0	55.0	1.0366E-7	0.000002
ID3	713.5	106.5	5.196E-5	0.000122
IDD	729.0	51.0	1.2902E-7	0.000002
Khiops	565.0	215.0	0.013706	0.014321
MDLP	294.0	526.0	≥ 0.2	1
Modified Chi2	461.0	319.0	≥ 0.2	0.318385
MODL	499.0	321.0	≥ 0.2	0.844311
MVD	634.0	186.0	0.00206	0.002548
PKID	658.0	122.0	8.474E-5	0.000179
UCPD	553.0	267.0	0.05482	0.053351
USD	600.0	180.0	0.002752	0.003254
Zeta	459.0	361.0	≥ 0.2	0.884485

Table 31: Results obtained by the Wilcoxon test for algorithm Distance

11.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[0.0984 , 0.2636]	0.90276
Ameva	[-0.0122 , 0.01455]	0.90276
Bayesian	[0.0888 , 0.2226]	0.90276
CACC	[-0.00485 , 0.01375]	0.90276
CADD	[0.2728 , 0.42425]	0.90276
CAIM	[-0.01925 , 0.00535]	0.90276
Chi2	[-0.00925 , 0.0206]	0.90276
ChiMerge	[-0.0225 , 0.01795]	0.90276
ClusterAnalysis	[0.09745 , 0.21885]	0.90276
DIBD	[0.02285 , 0.0901]	0.90276
EqualFrequency	[0.007 , 0.0691]	0.90276
EqualWidth	[0.02465 , 0.0904]	0.90276
Extended Chi2	[0.00195 , 0.09445]	0.90276
FFD	[0.04925 , 0.14025]	0.90276
FUSINTER	[-0.0193 , 0.0026]	0.90276
HDD	[0.01255 , 0.1246]	0.90276
HellingerBD	[0.0125 , 0.05875]	0.90276
Heter-Disc	[0.16125 , 0.30775]	0.90276
ID3	[0.0944 , 0.2454]	0.90276
IDD	[0.121 , 0.2502]	0.90276
Khiops	[0.00765 , 0.03955]	0.90276
MDLP	[-0.01295 , 0.00025]	0.90276
Modified Chi2	[-0.0081 , 0.04565]	0.90276
MODL	[-0.0037 , 0.0323]	0.90276
MVD	[0.0322 , 0.21975]	0.90276
PKID	[0.059 , 0.15935]	0.90276
UCPD	[0.00165 , 0.0374]	0.90276
USD	[0.04605 , 0.1619]	0.90276
Zeta	[-0.0073 , 0.02505]	0.90276

Table 32: Confidence intervals for algorithm Distance (α=0.90)

α=0.95	Confidence interval	Exact confidence
1R	[0.08605 , 0.277]	0.95024
Ameva	[-0.01565 , 0.01765]	0.95024
Bayesian	[0.07515 , 0.2326]	0.95024
CACC	[-0.0067 , 0.0157]	0.95024
CADD	[0.2637 , 0.4356]	0.95024
CAIM	[-0.02335 , 0.0081]	0.95024
Chi2	[-0.01215 , 0.0249]	0.95024
ChiMerge	[-0.0276 , 0.0213]	0.95024
ClusterAnalysis	[0.08745 , 0.22845]	0.95024
DIBD	[0.019 , 0.097]	0.95024
EqualFrequency	[0.00195 , 0.07705]	0.95024
EqualWidth	[0.01965 , 0.09575]	0.95024
Extended Chi2	[-0.0019 , 0.10235]	0.95024
FFD	[0.04375 , 0.15035]	0.95024
FUSINTER	[-0.02065 , 0.0051]	0.95024
HDD	[0.0069 , 0.15235]	0.95024
HellingerBD	[0.0069 , 0.06205]	0.95024
Heter-Disc	[0.14135 , 0.32825]	0.95024
ID3	[0.0817 , 0.2538]	0.95024
IDD	[0.11085 , 0.26205]	0.95024
Khiops	[0.0046 , 0.0423]	0.95024
MDLP	[-0.01365 , 0.00165]	0.95024
Modified Chi2	[-0.0108 , 0.0535]	0.95024
MODL	[-0.00575 , 0.04235]	0.95024
MVD	[0.02485 , 0.23335]	0.95024
PKID	[0.048 , 0.1691]	0.95024
UCPD	[-0.00055 , 0.039]	0.95024
USD	[0.03215 , 0.1801]	0.95024
Zeta	[-0.00925 , 0.02755]	0.95024

Table 33: Confidence intervals for algorithm Distance (α=0.95)

12 Detailed results for EqualFrequency

12.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	591.0	189.0	0.00429	0.004924
Ameva	251.0	529.0	≥ 0.2	1
Bayesian	703.5	116.5	1.0977E-4	0.000224
CACC	302.0	478.0	≥ 0.2	1
CADD	772.5	12.5	4.598E-9	0.000001
CAIM	149.0	631.0	≥ 0.2	1
Chi2	307.5	512.5	≥ 0.2	1
ChiMerge	151.0	629.0	≥ 0.2	1
ClusterAnalysis	759.0	61.0	3.194E-6	0.000019
DIBD	440.5	379.5	≥ 0.2	1
Distance	238.0	542.0	≥ 0.2	1
EqualWidth	527.0	293.0	≥ 0.2	0.524595
Extended Chi2	454.0	329.0	≥ 0.2	0.728603
FFD	672.5	147.5	0.009322	0.010081
FUSINTER	174.0	609.0	≥ 0.2	1
HDD	532.0	288.0	≥ 0.2	0.474713
HellingerBD	417.5	402.5	≥ 0.2	1
Heter-Disc	696.0	87.0	2.032E-5	0.000064
ID3	756.5	63.5	1.637E-5	0.000061
IDD	656.0	127.0	4.336E-4	0.000688
Khiops	283.0	500.0	≥ 0.2	1
MDLP	214.5	605.5	≥ 0.2	1
Modified Chi2	396.0	424.0	≥ 0.2	1
MODL	317.5	502.5	≥ 0.2	1
MVD	546.5	238.5	≥ 0.2	0.207239
PKID	711.5	108.5	8.112E-4	0.001196
UCPD	329.0	491.0	≥ 0.2	1
USD	602.0	181.0	0.009172	0.009887
Zeta	214.5	565.5	≥ 0.2	1

Table 34: Results obtained by the Wilcoxon test for algorithm EqualFrequency

12.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[0.03205 , 0.2087]	0.90276
Ameva	[-0.07375 , -0.005]	0.90276
Bayesian	[0.0589 , 0.14215]	0.90276
CACC	[-0.0452 , 0.00495]	0.90276
CADD	[0.20995 , 0.36245]	0.90276
CAIM	[-0.0797 , -0.02655]	0.90276
Chi2	[-0.0514 , 0.00325]	0.90276
ChiMerge	[-0.0682 , -0.0229]	0.90276
ClusterAnalysis	[0.07 , 0.1231]	0.90276
DIBD	[-0.0176 , 0.03695]	0.90276
Distance	[-0.0691 , -0.007]	0.90276
EqualWidth	[-0.00005 , 0.03525]	0.90276
Extended Chi2	[-0.0167 , 0.0366]	0.90276
FFD	[0.0205 , 0.06885]	0.90276
FUSINTER	[-0.0691 , -0.01475]	0.90276
HDD	[0 , 0.0772]	0.90276
HellingerBD	[-0.0221 , 0.0233]	0.90276
Heter-Disc	[0.1135 , 0.2471]	0.90276
ID3	[0.0527 , 0.16495]	0.90276
IDD	[0.0642 , 0.1881]	0.90276
Khiops	[-0.03635 , 0.0011]	0.90276
MDLP	[-0.0684 , -0.0172]	0.90276
Modified Chi2	[-0.0315 , 0.0147]	0.90276
MODL	[-0.0377 , 0.0046]	0.90276
MVD	[0.00755 , 0.16225]	0.90276
PKID	[0.0268 , 0.088]	0.90276
UCPD	[-0.05325 , 0.00555]	0.90276
USD	[0.0166 , 0.10345]	0.90276
Zeta	[-0.05565 , -0.00985]	0.90276

Table 35: Confidence intervals for algorithm EqualFrequency (α=0.90)

α=0.95	Confidence interval	Exact confidence
1R	[0.0227 , 0.2228]	0.95024
Ameva	[-0.0806 , 0.00155]	0.95024
Bayesian	[0.0527 , 0.15005]	0.95024
CACC	[-0.05335 , 0.0069]	0.95024
CADD	[0.19675 , 0.3806]	0.95024
CAIM	[-0.08915 , -0.0219]	0.95024
Chi2	[-0.05685 , 0.0073]	0.95024
ChiMerge	[-0.0743 , -0.0196]	0.95024
ClusterAnalysis	[0.0617 , 0.1312]	0.95024
DIBD	[-0.0229 , 0.04155]	0.95024
Distance	[-0.07705 , -0.00195]	0.95024
EqualWidth	[-0.0026 , 0.04]	0.95024
Extended Chi2	[-0.02155 , 0.0438]	0.95024
FFD	[0.0182 , 0.0795]	0.95024
FUSINTER	[-0.0747 , -0.0107]	0.95024
HDD	[-0.00205 , 0.0953]	0.95024
HellingerBD	[-0.02725 , 0.02645]	0.95024
Heter-Disc	[0.0886 , 0.265]	0.95024
ID3	[0.04925 , 0.1751]	0.95024
IDD	[0.0578 , 0.20535]	0.95024
Khiops	[-0.0416 , 0.0056]	0.95024
MDLP	[-0.0733 , -0.0112]	0.95024
Modified Chi2	[-0.0378 , 0.018]	0.95024
MODL	[-0.0408 , 0.0085]	0.95024
MVD	[0.0015 , 0.17595]	0.95024
PKID	[0.0233 , 0.0905]	0.95024
UCPD	[-0.05925 , 0.00895]	0.95024
USD	[0.01065 , 0.10855]	0.95024
Zeta	[-0.06075 , -0.00575]	0.95024

Table 36: Confidence intervals for algorithm EqualFrequency (α=0.95)

13 Detailed results for EqualWidth

13.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	561.5	258.5	0.10644	0.102784
Ameva	161.0	619.0	≥ 0.2	1
Bayesian	634.0	149.0	0.001705	0.002195
CACC	208.0	572.0	≥ 0.2	1
CADD	815.0	5.0	2.91E-10	0
CAIM	97.0	683.0	≥ 0.2	1
Chi2	183.5	636.5	≥ 0.2	1
ChiMerge	92.0	688.0	≥ 0.2	1
ClusterAnalysis	671.0	112.0	1.5154E-4	0.000294
DIBD	368.0	452.0	≥ 0.2	1
Distance	172.0	608.0	≥ 0.2	1
EqualFrequency	293.0	527.0	≥ 0.2	1
Extended Chi2	346.5	473.5	≥ 0.2	1
FFD	549.5	270.5	≥ 0.2	0.321337
FUSINTER	80.0	700.0	≥ 0.2	1
HDD	486.0	334.0	≥ 0.2	1
HellingerBD	264.0	519.0	≥ 0.2	1
Heter-Disc	699.5	120.5	1.461E-4	0.00028
ID3	691.5	128.5	0.003096	0.003757
IDD	664.0	156.0	0.004598	0.005293
Khiops	232.5	587.5	≥ 0.2	1
MDLP	148.0	632.0	≥ 0.2	1
Modified Chi2	271.5	513.5	≥ 0.2	1
MODL	260.5	559.5	≥ 0.2	1
MVD	542.0	241.0	0.09736	0.094017
PKID	564.5	255.5	≥ 0.2	0.46747
UCPD	196.0	624.0	≥ 0.2	1
USD	541.0	279.0	≥ 0.2	0.391873
Zeta	138.0	642.0	≥ 0.2	1

Table 37: Results obtained by the Wilcoxon test for algorithm EqualWidth

13.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[0.0123 , 0.19725]	0.90276
Ameva	[-0.094 , -0.03035]	0.90276
Bayesian	[0.04745 , 0.1269]	0.90276
CACC	[-0.07505 , -0.01495]	0.90276
CADD	[0.19665 , 0.343]	0.90276
CAIM	[-0.11445 , -0.04875]	0.90276
Chi2	[-0.0689 , -0.01965]	0.90276
ChiMerge	[-0.1028 , -0.04415]	0.90276
ClusterAnalysis	[0.03755 , 0.1077]	0.90276
DIBD	[-0.03965 , 0.02055]	0.90276
Distance	[-0.0904 , -0.02465]	0.90276
EqualFrequency	[-0.03525 , 0.00005]	0.90276
Extended Chi2	[-0.0415 , 0.01235]	0.90276
FFD	[0.00095 , 0.0531]	0.90276
FUSINTER	[-0.09045 , -0.03405]	0.90276
HDD	[-0.00845 , 0.0652]	0.90276
HellingerBD	[-0.0413 , -0.0006]	0.90276
Heter-Disc	[0.1055 , 0.237]	0.90276
ID3	[0.0364 , 0.14005]	0.90276
IDD	[0.0509 , 0.1786]	0.90276
Khiops	[-0.06195 , -0.012]	0.90276
MDLP	[-0.0927 , -0.0351]	0.90276
Modified Chi2	[-0.051 , 0]	0.90276
MODL	[-0.05355 , -0.007]	0.90276
MVD	[0.0052 , 0.13725]	0.90276
PKID	[0.0059 , 0.07375]	0.90276
UCPD	[-0.0658 , -0.0159]	0.90276
USD	[0.0023 , 0.0834]	0.90276
Zeta	[-0.0824 , -0.028]	0.90276

Table 38: Confidence intervals for algorithm EqualWidth (α=0.90)

α=0.95	Confidence interval	Exact confidence
1R	[0.00325 , 0.2133]	0.95024
Ameva	[-0.10145 , -0.0242]	0.95024
Bayesian	[0.03785 , 0.1376]	0.95024
CACC	[-0.0829 , -0.01095]	0.95024
CADD	[0.1843 , 0.3548]	0.95024
CAIM	[-0.1201 , -0.04315]	0.95024
Chi2	[-0.07745 , -0.0169]	0.95024
ChiMerge	[-0.1109 , -0.0405]	0.95024
ClusterAnalysis	[0.0347 , 0.11735]	0.95024
DIBD	[-0.04555 , 0.02835]	0.95024
Distance	[-0.09575 , -0.01965]	0.95024
EqualFrequency	[-0.04 , 0.0026]	0.95024
Extended Chi2	[-0.04605 , 0.0211]	0.95024
FFD	[-0 , 0.062]	0.95024
FUSINTER	[-0.09615 , -0.0314]	0.95024
HDD	[-0.0162 , 0.07405]	0.95024
HellingerBD	[-0.04565 , 0.0018]	0.95024
Heter-Disc	[0.0962 , 0.25245]	0.95024
ID3	[0.0341 , 0.15485]	0.95024
IDD	[0.04045 , 0.20205]	0.95024
Khiops	[-0.069 , -0.00755]	0.95024
MDLP	[-0.099 , -0.0301]	0.95024
Modified Chi2	[-0.0584 , 0.00245]	0.95024
MODL	[-0.0576 , -0.00075]	0.95024
MVD	[0.00215 , 0.1538]	0.95024
PKID	[0 , 0.0793]	0.95024
UCPD	[-0.0732 , -0.0129]	0.95024
USD	[-0.00325 , 0.0927]	0.95024
Zeta	[-0.08905 , -0.0236]	0.95024

Table 39: Confidence intervals for algorithm EqualWidth (α=0.95)

14 Detailed results for Extended Chi2

14.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	560.0	223.0	0.05274	0.051639
Ameva	197.0	623.0	≥ 0.2	1
Bayesian	660.0	123.0	3.308E-4	0.000551
CACC	279.0	541.0	≥ 0.2	1
CADD	722.5	62.5	7.4480000000000005E-6	0.000034
CAIM	141.5	678.5	≥ 0.2	1
Chi2	290.5	529.5	≥ 0.2	1
ChiMerge	176.0	644.0	≥ 0.2	1
ClusterAnalysis	652.5	167.5	0.002605	0.003165
DIBD	431.0	389.0	≥ 0.2	0.772591
Distance	275.0	545.0	≥ 0.2	1
EqualFrequency	329.0	454.0	≥ 0.2	1
EqualWidth	473.5	346.5	≥ 0.2	0.722361
FFD	498.5	321.5	≥ 0.2	0.472842
FUSINTER	212.0	568.0	≥ 0.2	1
HDD	467.5	315.5	≥ 0.2	0.581161
HellingerBD	354.0	466.0	≥ 0.2	1
Heter-Disc	644.0	139.0	9.368E-4	0.001312
ID3	697.0	123.0	6.254E-4	0.000943
IDD	638.0	182.0	0.016752	0.017305
Khiops	323.0	457.0	≥ 0.2	1
MDLP	243.0	577.0	≥ 0.2	1
Modified Chi2	357.0	426.0	≥ 0.2	1
MODL	351.0	432.0	≥ 0.2	1
MVD	532.0	288.0	≥ 0.2	0.474713
PKID	572.0	248.0	0.18664	0.17919
UCPD	297.5	522.5	≥ 0.2	1
USD	561.0	259.0	≥ 0.2	0.241825
Zeta	241.0	579.0	≥ 0.2	1

Table 40: Results obtained by the Wilcoxon test for algorithm Extended Chi2

14.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[0.02195 , 0.2062]	0.90276
Ameva	[-0.09495 , -0.01895]	0.90276
Bayesian	[0.03605 , 0.13715]	0.90276
CACC	[-0.0814 , -0.00135]	0.90276
CADD	[0.1859 , 0.3599]	0.90276
CAIM	[-0.11295 , -0.0288]	0.90276
Chi2	[-0.05865 , 0.0001]	0.90276
ChiMerge	[-0.09 , -0.0295]	0.90276
ClusterAnalysis	[0.04385 , 0.1262]	0.90276
DIBD	[-0.04495 , 0.0398]	0.90276
Distance	[-0.09445 , -0.00195]	0.90276
EqualFrequency	[-0.0366 , 0.0167]	0.90276
EqualWidth	[-0.01235 , 0.0415]	0.90276
FFD	[-0.0065 , 0.0587]	0.90276
FUSINTER	[-0.10435 , -0.0082]	0.90276
HDD	[-0.0049 , 0.04845]	0.90276
HellingerBD	[-0.05815 , 0.01675]	0.90276
Heter-Disc	[0.0931 , 0.25845]	0.90276
ID3	[0.03795 , 0.13575]	0.90276
IDD	[0.03835 , 0.18325]	0.90276
Khiops	[-0.07355 , 0.0141]	0.90276
MDLP	[-0.0908 , -0.00685]	0.90276
Modified Chi2	[-0.02245 , 0.013]	0.90276
MODL	[-0.0545 , 0.0097]	0.90276
MVD	[0 , 0.1347]	0.90276
PKID	[0.00825 , 0.06865]	0.90276
UCPD	[-0.07495 , 0.00145]	0.90276
USD	[0.0054 , 0.07535]	0.90276
Zeta	[-0.0867 , -0.0076]	0.90276

Table 41: Confidence intervals for algorithm Extended Chi2 (α=0.90)

α=0.95	Confidence interval	Exact confidence
1R	[0.0146 , 0.22315]	0.95024
Ameva	[-0.1012 , -0.0149]	0.95024
Bayesian	[0.03095 , 0.15275]	0.95024
CACC	[-0.0972 , 0.003]	0.95024
CADD	[0.17 , 0.37785]	0.95024
CAIM	[-0.1214 , -0.0237]	0.95024
Chi2	[-0.06745 , 0.00155]	0.95024
ChiMerge	[-0.09695 , -0.0216]	0.95024
ClusterAnalysis	[0.03605 , 0.13615]	0.95024
DIBD	[-0.05605 , 0.0458]	0.95024
Distance	[-0.10235 , 0.0019]	0.95024
EqualFrequency	[-0.0438 , 0.02155]	0.95024
EqualWidth	[-0.0211 , 0.04605]	0.95024
FFD	[-0.01055 , 0.06635]	0.95024
FUSINTER	[-0.12025 , -0.0057]	0.95024
HDD	[-0.0065 , 0.0544]	0.95024
HellingerBD	[-0.0671 , 0.02305]	0.95024
Heter-Disc	[0.07455 , 0.2714]	0.95024
ID3	[0.0342 , 0.15385]	0.95024
IDD	[0.0309 , 0.19645]	0.95024
Khiops	[-0.0865 , 0.0216]	0.95024
MDLP	[-0.10135 , -0.0025]	0.95024
Modified Chi2	[-0.06905 , 0.01985]	0.95024
MODL	[-0.0615 , 0.0131]	0.95024
MVD	[-0.0075 , 0.154]	0.95024
PKID	[0.00375 , 0.07395]	0.95024
UCPD	[-0.0839 , 0.0054]	0.95024
USD	[0.0005 , 0.08215]	0.95024
Zeta	[-0.0924 , -0.00395]	0.95024

Table 42: Confidence intervals for algorithm Extended Chi2 (α=0.95)

15 Detailed results for FFD

15.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	448.0	335.0	≥ 0.2	0.79759
Ameva	127.0	653.0	≥ 0.2	1
Bayesian	550.5	234.5	0.1926	0.184604
CACC	167.0	613.0	≥ 0.2	1
CADD	737.0	50.0	7.17E-6	0.000037
CAIM	62.5	757.5	≥ 0.2	1
Chi2	127.5	692.5	≥ 0.2	1
ChiMerge	69.0	711.0	≥ 0.2	1
ClusterAnalysis	609.0	211.0	0.0556	0.054286
DIBD	255.0	525.0	≥ 0.2	1
Distance	120.0	660.0	≥ 0.2	1
EqualFrequency	147.5	672.5	≥ 0.2	1
EqualWidth	270.5	549.5	≥ 0.2	1
Extended Chi2	321.5	498.5	≥ 0.2	1
FUSINTER	62.0	718.0	≥ 0.2	1
HDD	371.5	448.5	≥ 0.2	1
HellingerBD	149.0	634.0	≥ 0.2	1
Heter-Disc	628.0	192.0	0.02604	0.026213
ID3	622.5	170.5	≥ 0.2	0.648048
IDD	514.5	270.5	≥ 0.2	0.461085
Khiops	113.0	670.0	≥ 0.2	1
MDLP	123.5	696.5	≥ 0.2	1
Modified Chi2	166.0	619.0	≥ 0.2	1
MODL	149.0	634.0	≥ 0.2	1
MVD	477.0	343.0	≥ 0.2	1
PKID	445.5	374.5	≥ 0.2	1
UCPD	107.0	713.0	≥ 0.2	1
USD	367.5	417.5	≥ 0.2	1
Zeta	93.0	687.0	≥ 0.2	1

Table 43: Results obtained by the Wilcoxon test for algorithm FFD

15.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[-0.0247 , 0.1567]	0.90276
Ameva	[-0.13995 , -0.0523]	0.90276
Bayesian	[0.00925 , 0.09725]	0.90276
CACC	[-0.10835 , -0.0344]	0.90276
CADD	[0.1503 , 0.32035]	0.90276
CAIM	[-0.16195 , -0.0745]	0.90276
Chi2	[-0.11205 , -0.03285]	0.90276
ChiMerge	[-0.1477 , -0.07235]	0.90276
ClusterAnalysis	[0.011 , 0.0741]	0.90276
DIBD	[-0.09605 , -0.00575]	0.90276
Distance	[-0.14025 , -0.04925]	0.90276
EqualFrequency	[-0.06885 , -0.0205]	0.90276
EqualWidth	[-0.0531 , -0.00095]	0.90276
Extended Chi2	[-0.0587 , 0.0065]	0.90276
FUSINTER	[-0.14355 , -0.0605]	0.90276
HDD	[-0.025 , 0.0133]	0.90276
HellingerBD	[-0.072 , -0.02355]	0.90276
Heter-Disc	[0.0514 , 0.20755]	0.90276
ID3	[0.0051 , 0.0808]	0.90276
IDD	[0 , 0.13505]	0.90276
Khiops	[-0.1101 , -0.03875]	0.90276
MDLP	[-0.1429 , -0.0543]	0.90276
Modified Chi2	[-0.1002 , -0.0215]	0.90276
MODL	[-0.09055 , -0.0354]	0.90276
MVD	[-0.01995 , 0.12035]	0.90276
PKID	[-0.0081 , 0.01585]	0.90276
UCPD	[-0.11765 , -0.032]	0.90276
USD	[-0.0183 , 0.03265]	0.90276
Zeta	[-0.1294 , -0.0561]	0.90276

Table 44: Confidence intervals for algorithm FFD (α=0.90)

α=0.95	Confidence interval	Exact confidence
1R	[-0.03185 , 0.17595]	0.95024
Ameva	[-0.1482 , -0.0459]	0.95024
Bayesian	[0.0049 , 0.1054]	0.95024
CACC	[-0.12325 , -0.02885]	0.95024
CADD	[0.1247 , 0.33155]	0.95024
CAIM	[-0.17135 , -0.0715]	0.95024
Chi2	[-0.12475 , -0.0293]	0.95024
ChiMerge	[-0.153 , -0.06615]	0.95024
ClusterAnalysis	[0.00855 , 0.0761]	0.95024
DIBD	[-0.1014 , 0.0024]	0.95024
Distance	[-0.15035 , -0.04375]	0.95024
EqualFrequency	[-0.0795 , -0.0182]	0.95024
EqualWidth	[-0.062 , 0]	0.95024
Extended Chi2	[-0.06635 , 0.01055]	0.95024
FUSINTER	[-0.1504 , -0.0542]	0.95024
HDD	[-0.04445 , 0.02275]	0.95024
HellingerBD	[-0.08195 , -0.0216]	0.95024
Heter-Disc	[0.034 , 0.22]	0.95024
ID3	[0.0027 , 0.08445]	0.95024
IDD	[-0.0055 , 0.14745]	0.95024
Khiops	[-0.11835 , -0.0332]	0.95024
MDLP	[-0.1536 , -0.0481]	0.95024
Modified Chi2	[-0.1102 , -0.0176]	0.95024
MODL	[-0.09715 , -0.031]	0.95024
MVD	[-0.02615 , 0.13825]	0.95024
PKID	[-0.01235 , 0.02025]	0.95024
UCPD	[-0.12315 , -0.0277]	0.95024
USD	[-0.0215 , 0.04675]	0.95024
Zeta	[-0.139 , -0.04905]	0.95024

Table 45: Confidence intervals for algorithm FFD (α=0.95)

16 Detailed results for FUSINTER

16.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	728.0	92.0	4.154E-6	0.000019
Ameva	434.0	346.0	≥ 0.2	0.534601
Bayesian	762.0	58.0	1.4608E-7	0.000002
CACC	457.0	323.0	≥ 0.2	0.346212
CADD	814.0	6.0	2.546E-11	0
CAIM	308.0	472.0	≥ 0.2	1
Chi2	516.5	303.5	≥ 0.2	0.327628
ChiMerge	404.5	415.5	≥ 0.2	1
ClusterAnalysis	775.0	45.0	3.062E-8	0.000001
DIBD	660.5	159.5	4.937E-4	0.000726
Distance	473.0	307.0	≥ 0.2	0.243921
EqualFrequency	609.0	174.0	0.00653	0.007245
EqualWidth	700.0	80.0	2.778E-6	0.000015
Extended Chi2	568.0	212.0	0.012092	0.01274
FFD	718.0	62.0	4.53E-7	0.000005
HDD	612.0	168.0	0.0014682	0.001903
HellingerBD	624.0	156.0	7.494E-4	0.001066
Heter-Disc	799.0	21.0	8.13E-10	0
ID3	735.0	45.0	6.122E-8	0.000001
IDD	775.0	45.0	3.062E-8	0.000001
Khiops	602.5	217.5	0.02581	0.025738
MDLP	388.0	392.0	≥ 0.2	1
Modified Chi2	563.0	257.0	≥ 0.2	0.229418
MODL	561.0	222.0	0.05086	0.049854
MVD	692.0	88.0	5.758E-6	0.000024
PKID	725.0	55.0	2.068E-7	0.000003
UCPD	644.0	176.0	0.0012308	0.001622
USD	670.0	110.0	3.506E-5	0.000091
Zeta	453.0	327.0	≥ 0.2	0.375541

Table 46: Results obtained by the Wilcoxon test for algorithm FUSINTER

16.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[0.09175 , 0.28685]	0.90276
Ameva	[-0.0129 , 0.02295]	0.90276
Bayesian	[0.0982 , 0.2217]	0.90276
CACC	[-0.00505 , 0.02515]	0.90276
CADD	[0.281 , 0.44335]	0.90276
CAIM	[-0.0271 , 0.0051]	0.90276
Chi2	[-0.0012 , 0.0177]	0.90276
ChiMerge	[-0.01405 , 0.0122]	0.90276
ClusterAnalysis	[0.10385 , 0.21365]	0.90276
DIBD	[0.02335 , 0.08285]	0.90276
Distance	[-0.0026 , 0.0193]	0.90276
EqualFrequency	[0.01475 , 0.0691]	0.90276
EqualWidth	[0.03405 , 0.09045]	0.90276
Extended Chi2	[0.0082 , 0.10435]	0.90276
FFD	[0.0605 , 0.14355]	0.90276
HDD	[0.0262 , 0.1425]	0.90276
HellingerBD	[0.02285 , 0.0688]	0.90276
Heter-Disc	[0.1723 , 0.32515]	0.90276
ID3	[0.1064 , 0.2495]	0.90276
IDD	[0.115 , 0.2692]	0.90276
Khiops	[0.01035 , 0.0431]	0.90276
MDLP	[-0.0106 , 0.0116]	0.90276
Modified Chi2	[0.0031 , 0.03625]	0.90276
MODL	[0.0043 , 0.02625]	0.90276
MVD	[0.0431 , 0.218]	0.90276
PKID	[0.0666 , 0.15645]	0.90276
UCPD	[0.01115 , 0.04085]	0.90276
USD	[0.0403 , 0.1663]	0.90276
Zeta	[-0.00865 , 0.0236]	0.90276

Table 47: Confidence intervals for algorithm FUSINTER (α=0.90)

α=0.95	Confidence interval	Exact confidence
1R	[0.0787 , 0.30335]	0.95024
Ameva	[-0.0169 , 0.0257]	0.95024
Bayesian	[0.088 , 0.2304]	0.95024
CACC	[-0.0089 , 0.0305]	0.95024
CADD	[0.2721 , 0.4566]	0.95024
CAIM	[-0.0314 , 0.0076]	0.95024
Chi2	[-0.0024 , 0.02075]	0.95024
ChiMerge	[-0.0165 , 0.01495]	0.95024
ClusterAnalysis	[0.0968 , 0.22415]	0.95024
DIBD	[0.01615 , 0.0943]	0.95024
Distance	[-0.0051 , 0.02065]	0.95024
EqualFrequency	[0.0107 , 0.0747]	0.95024
EqualWidth	[0.0314 , 0.09615]	0.95024
Extended Chi2	[0.0057 , 0.12025]	0.95024
FFD	[0.0542 , 0.1504]	0.95024
HDD	[0.01985 , 0.1517]	0.95024
HellingerBD	[0.01875 , 0.0724]	0.95024
Heter-Disc	[0.15635 , 0.35015]	0.95024
ID3	[0.0962 , 0.26015]	0.95024
IDD	[0.10415 , 0.27825]	0.95024
Khiops	[0.00615 , 0.0471]	0.95024
MDLP	[-0.0123 , 0.0135]	0.95024
Modified Chi2	[0.00065 , 0.04005]	0.95024
MODL	[0.00265 , 0.0313]	0.95024
MVD	[0.03735 , 0.2369]	0.95024
PKID	[0.0597 , 0.16615]	0.95024
UCPD	[0.0089 , 0.04425]	0.95024
USD	[0.0331 , 0.1795]	0.95024
Zeta	[-0.01175 , 0.02555]	0.95024

Table 48: Confidence intervals for algorithm FUSINTER (α=0.95)

17 Detailed results for HDD

17.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	513.0	270.0	≥ 0.2	0.216059
Ameva	180.0	603.0	≥ 0.2	1
Bayesian	576.5	243.5	≥ 0.2	0.351461
CACC	268.5	551.5	≥ 0.2	1
CADD	721.0	99.0	0.0014368	0.00197
CAIM	119.0	672.0	≥ 0.2	1
Chi2	269.5	550.5	≥ 0.2	1
ChiMerge	152.5	667.5	≥ 0.2	1
ClusterAnalysis	562.5	222.5	0.13311	0.127694
DIBD	367.0	453.0	≥ 0.2	1
Distance	229.0	591.0	≥ 0.2	1
EqualFrequency	288.0	532.0	≥ 0.2	1
EqualWidth	334.0	486.0	≥ 0.2	1
Extended Chi2	315.5	467.5	≥ 0.2	1
FFD	448.5	371.5	≥ 0.2	1
FUSINTER	168.0	612.0	≥ 0.2	1
HellingerBD	283.0	497.0	≥ 0.2	1
Heter-Disc	622.5	197.5	0.08909	0.08576
ID3	642.5	177.5	≥ 0.2	1
IDD	548.5	236.5	≥ 0.2	0.195682
Khiops	245.0	540.0	≥ 0.2	1
MDLP	180.5	639.5	≥ 0.2	1
Modified Chi2	283.5	536.5	≥ 0.2	1
MODL	281.0	539.0	≥ 0.2	1
MVD	494.0	326.0	≥ 0.2	1
PKID	442.5	346.5	≥ 0.2	1
UCPD	271.0	549.0	≥ 0.2	1
USD	426.5	362.5	≥ 0.2	1
Zeta	221.5	598.5	≥ 0.2	1

Table 49: Results obtained by the Wilcoxon test for algorithm HDD

17.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[0.00005 , 0.172]	0.90276
Ameva	[-0.1434 , -0.0374]	0.90276
Bayesian	[0.0111 , 0.0985]	0.90276
CACC	[-0.13655 , -0.0031]	0.90276
CADD	[0.1549 , 0.3362]	0.90276
CAIM	[-0.15185 , -0.04805]	0.90276
Chi2	[-0.104 , -0.00105]	0.90276
ChiMerge	[-0.141 , -0.04525]	0.90276
ClusterAnalysis	[0.00895 , 0.0884]	0.90276
DIBD	[-0.0911 , 0.0259]	0.90276
Distance	[-0.1246 , -0.01255]	0.90276
EqualFrequency	[-0.0772 , 0]	0.90276
EqualWidth	[-0.0652 , 0.00845]	0.90276
Extended Chi2	[-0.04845 , 0.0049]	0.90276
FFD	[-0.0133 , 0.025]	0.90276
FUSINTER	[-0.1425 , -0.0262]	0.90276
HellingerBD	[-0.10065 , 0.002]	0.90276
Heter-Disc	[0.0384 , 0.22665]	0.90276
ID3	[0.00115 , 0.06065]	0.90276
IDD	[0.0115 , 0.13575]	0.90276
Khiops	[-0.11505 , -0.004]	0.90276
MDLP	[-0.1263 , -0.02185]	0.90276
Modified Chi2	[-0.0749 , 0]	0.90276
MODL	[-0.08455 , -0.0013]	0.90276
MVD	[-0.0071 , 0.0986]	0.90276
PKID	[-0.00985 , 0.0274]	0.90276
UCPD	[-0.12225 , -0.0062]	0.90276
USD	[-0.0119 , 0.02635]	0.90276
Zeta	[-0.1314 , -0.0286]	0.90276

Table 50: Confidence intervals for algorithm HDD (α=0.90)

α=0.95	Confidence interval	Exact confidence
1R	[-0.012 , 0.18615]	0.95024
Ameva	[-0.1545 , -0.02255]	0.95024
Bayesian	[0.0064 , 0.11785]	0.95024
CACC	[-0.15535 , 0.0001]	0.95024
CADD	[0.1347 , 0.3533]	0.95024
CAIM	[-0.16125 , -0.046]	0.95024
Chi2	[-0.1222 , 0]	0.95024
ChiMerge	[-0.15385 , -0.03645]	0.95024
ClusterAnalysis	[0.00655 , 0.10335]	0.95024
DIBD	[-0.1032 , 0.036]	0.95024
Distance	[-0.15235 , -0.0069]	0.95024
EqualFrequency	[-0.0953 , 0.00205]	0.95024
EqualWidth	[-0.07405 , 0.0162]	0.95024
Extended Chi2	[-0.0544 , 0.0065]	0.95024
FFD	[-0.02275 , 0.04445]	0.95024
FUSINTER	[-0.1517 , -0.01985]	0.95024
HellingerBD	[-0.12 , 0.0086]	0.95024
Heter-Disc	[0.02805 , 0.24865]	0.95024
ID3	[0.0002 , 0.06885]	0.95024
IDD	[0.005 , 0.1478]	0.95024
Khiops	[-0.1326 , 0]	0.95024
MDLP	[-0.1519 , -0.0168]	0.95024
Modified Chi2	[-0.08545 , 0.00175]	0.95024
MODL	[-0.09465 , 0.00205]	0.95024
MVD	[-0.01785 , 0.1152]	0.95024
PKID	[-0.0133 , 0.041]	0.95024
UCPD	[-0.13325 , 0.0024]	0.95024
USD	[-0.01945 , 0.0313]	0.95024
Zeta	[-0.13985 , -0.01985]	0.95024

Table 51: Confidence intervals for algorithm HDD (α=0.95)

18 Detailed results for HellingerBD

18.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	637.0	183.0	0.0017706	0.002229
Ameva	216.0	564.0	≥ 0.2	1
Bayesian	693.0	127.0	6.268E-5	0.000139
CACC	292.5	527.5	≥ 0.2	1
CADD	819.0	1.0	3.638E-12	0
CAIM	145.0	635.0	≥ 0.2	1
Chi2	266.0	514.0	≥ 0.2	1
ChiMerge	158.0	622.0	≥ 0.2	1
ClusterAnalysis	698.5	81.5	3.199E-6	0.000016
DIBD	473.0	347.0	≥ 0.2	0.39337
Distance	236.5	583.5	≥ 0.2	1
EqualFrequency	402.5	417.5	≥ 0.2	1
EqualWidth	519.0	264.0	0.1917	0.184313
Extended Chi2	466.0	354.0	≥ 0.2	0.447593
FFD	634.0	149.0	0.001705	0.002195
FUSINTER	156.0	624.0	≥ 0.2	1
HDD	497.0	283.0	0.13846	0.133572
Heter-Disc	738.0	82.0	1.6944E-6	0.00001
ID3	665.0	118.0	2.336E-4	0.000415
IDD	710.0	110.0	1.806E-5	0.000054
Khiops	318.0	462.0	≥ 0.2	1
MDLP	223.5	596.5	≥ 0.2	1
Modified Chi2	367.0	413.0	≥ 0.2	1
MODL	332.5	487.5	≥ 0.2	1
MVD	593.0	227.0	0.013026	0.013645
PKID	624.0	159.0	0.002992	0.003595
UCPD	374.0	446.0	≥ 0.2	1
USD	572.0	208.0	0.010196	0.010872
Zeta	273.5	506.5	≥ 0.2	1

Table 52: Results obtained by the Wilcoxon test for algorithm HellingerBD

18.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[0.05415 , 0.22235]	0.90276
Ameva	[-0.05225 , -0.0104]	0.90276
Bayesian	[0.06225 , 0.18015]	0.90276
CACC	[-0.04205 , 0.00065]	0.90276
CADD	[0.2372 , 0.3787]	0.90276
CAIM	[-0.07435 , -0.02555]	0.90276
Chi2	[-0.048 , -0.00185]	0.90276
ChiMerge	[-0.0613 , -0.02135]	0.90276
ClusterAnalysis	[0.05735 , 0.1509]	0.90276
DIBD	[-0.0147 , 0.05205]	0.90276
Distance	[-0.05875 , -0.0125]	0.90276
EqualFrequency	[-0.0233 , 0.0221]	0.90276
EqualWidth	[0.0006 , 0.0413]	0.90276
Extended Chi2	[-0.01675 , 0.05815]	0.90276
FFD	[0.02355 , 0.072]	0.90276
FUSINTER	[-0.0688 , -0.02285]	0.90276
HDD	[-0.002 , 0.10065]	0.90276
Heter-Disc	[0.13755 , 0.2752]	0.90276
ID3	[0.0663 , 0.19605]	0.90276
IDD	[0.09035 , 0.21275]	0.90276
Khiops	[-0.03275 , 0.00715]	0.90276
MDLP	[-0.0641 , -0.01485]	0.90276
Modified Chi2	[-0.0404 , 0.0203]	0.90276
MODL	[-0.0401 , 0.01145]	0.90276
MVD	[0.02345 , 0.19065]	0.90276
PKID	[0.02925 , 0.1082]	0.90276
UCPD	[-0.03835 , 0.0131]	0.90276
USD	[0.0175 , 0.1306]	0.90276
Zeta	[-0.04085 , 0.0016]	0.90276

Table 53: Confidence intervals for algorithm HellingerBD (α=0.90)

α=0.95	Confidence interval	Exact confidence
1R	[0.04175 , 0.24245]	0.95024
Ameva	[-0.0558 , -0.0065]	0.95024
Bayesian	[0.05385 , 0.1902]	0.95024
CACC	[-0.0452 , 0.004]	0.95024
CADD	[0.22745 , 0.3909]	0.95024
CAIM	[-0.0785 , -0.02175]	0.95024
Chi2	[-0.05115 , 0.00405]	0.95024
ChiMerge	[-0.0663 , -0.01815]	0.95024
ClusterAnalysis	[0.0517 , 0.1678]	0.95024
DIBD	[-0.0206 , 0.0604]	0.95024
Distance	[-0.06205 , -0.0069]	0.95024
EqualFrequency	[-0.02645 , 0.02725]	0.95024
EqualWidth	[-0.0018 , 0.04565]	0.95024
Extended Chi2	[-0.02305 , 0.0671]	0.95024
FFD	[0.0216 , 0.08195]	0.95024
FUSINTER	[-0.0724 , -0.01875]	0.95024
HDD	[-0.0086 , 0.12]	0.95024
Heter-Disc	[0.12545 , 0.28745]	0.95024
ID3	[0.05105 , 0.20955]	0.95024
IDD	[0.08065 , 0.2301]	0.95024
Khiops	[-0.0369 , 0.01275]	0.95024
MDLP	[-0.06935 , -0.00965]	0.95024
Modified Chi2	[-0.0456 , 0.02645]	0.95024
MODL	[-0.0432 , 0.0187]	0.95024
MVD	[0.0149 , 0.2023]	0.95024
PKID	[0.025 , 0.11575]	0.95024
UCPD	[-0.0441 , 0.0158]	0.95024
USD	[0.01085 , 0.144]	0.95024
Zeta	[-0.04565 , 0.00505]	0.95024

Table 54: Confidence intervals for algorithm HellingerBD (α=0.95)

19 Detailed results for Heter-Disc

19.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	347.5	472.5	≥ 0.2	1
Ameva	47.0	773.0	≥ 0.2	1
Bayesian	272.5	547.5	≥ 0.2	1
CACC	51.5	768.5	≥ 0.2	1
CADD	507.0	313.0	≥ 0.2	1
CAIM	42.0	778.0	≥ 0.2	1
Chi2	67.5	752.5	≥ 0.2	1
ChiMerge	33.0	787.0	≥ 0.2	1
ClusterAnalysis	232.5	552.5	≥ 0.2	1
DIBD	100.5	719.5	≥ 0.2	1
Distance	55.0	765.0	≥ 0.2	1
EqualFrequency	87.0	696.0	≥ 0.2	1
EqualWidth	120.5	699.5	≥ 0.2	1
Extended Chi2	139.0	644.0	≥ 0.2	1
FFD	192.0	628.0	≥ 0.2	1
FUSINTER	21.0	799.0	≥ 0.2	1
HDD	197.5	622.5	≥ 0.2	1
HellingerBD	82.0	738.0	≥ 0.2	1
ID3	277.0	510.0	≥ 0.2	1
IDD	345.0	475.0	≥ 0.2	1
Khiops	50.0	730.0	≥ 0.2	1
MDLP	38.0	782.0	≥ 0.2	1
Modified Chi2	71.0	712.0	≥ 0.2	1
MODL	81.0	699.0	≥ 0.2	1
MVD	254.0	566.0	≥ 0.2	1
PKID	179.5	640.5	≥ 0.2	1
UCPD	24.0	796.0	≥ 0.2	1
USD	200.0	583.0	≥ 0.2	1
Zeta	47.0	773.0	≥ 0.2	1

Table 55: Results obtained by the Wilcoxon test for algorithm Heter-Disc

19.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[-0.1354 , 0.02415]	0.90276
Ameva	[-0.29525 , -0.16085]	0.90276
Bayesian	[-0.1471 , -0.00725]	0.90276
CACC	[-0.2564 , -0.13305]	0.90276
CADD	[0 , 0.19575]	0.90276
CAIM	[-0.3302 , -0.1817]	0.90276
Chi2	[-0.28825 , -0.13245]	0.90276
ChiMerge	[-0.3169 , -0.1716]	0.90276
ClusterAnalysis	[-0.155 , -0.0164]	0.90276
DIBD	[-0.24405 , -0.0678]	0.90276
Distance	[-0.30775 , -0.16125]	0.90276
EqualFrequency	[-0.2471 , -0.1135]	0.90276
EqualWidth	[-0.237 , -0.1055]	0.90276
Extended Chi2	[-0.25845 , -0.0931]	0.90276
FFD	[-0.20755 , -0.0514]	0.90276
FUSINTER	[-0.32515 , -0.1723]	0.90276
HDD	[-0.22665 , -0.0384]	0.90276
HellingerBD	[-0.2752 , -0.13755]	0.90276
ID3	[-0.14375 , 0]	0.90276
IDD	[-0.09175 , 0.0176]	0.90276
Khiops	[-0.2812 , -0.142]	0.90276
MDLP	[-0.30965 , -0.16505]	0.90276
Modified Chi2	[-0.26165 , -0.116]	0.90276
MODL	[-0.25595 , -0.119]	0.90276
MVD	[-0.1742 , -0.00345]	0.90276
PKID	[-0.18925 , -0.03555]	0.90276
UCPD	[-0.2746 , -0.15255]	0.90276
USD	[-0.20565 , -0.031]	0.90276
Zeta	[-0.30155 , -0.15715]	0.90276

Table 56: Confidence intervals for algorithm Heter-Disc (α=0.90)

α=0.95	Confidence interval	Exact confidence
1R	[-0.15205 , 0.03515]	0.95024
Ameva	[-0.31065 , -0.1448]	0.95024
Bayesian	[-0.1676 , 0.0007]	0.95024
CACC	[-0.26825 , -0.1222]	0.95024
CADD	[-0.0093 , 0.22735]	0.95024
CAIM	[-0.3538 , -0.1723]	0.95024
Chi2	[-0.3045 , -0.1171]	0.95024
ChiMerge	[-0.3306 , -0.1563]	0.95024
ClusterAnalysis	[-0.16835 , -0.0057]	0.95024
DIBD	[-0.25645 , -0.06025]	0.95024
Distance	[-0.32825 , -0.14135]	0.95024
EqualFrequency	[-0.265 , -0.0886]	0.95024
EqualWidth	[-0.25245 , -0.0962]	0.95024
Extended Chi2	[-0.2714 , -0.07455]	0.95024
FFD	[-0.22 , -0.034]	0.95024
FUSINTER	[-0.35015 , -0.15635]	0.95024
HDD	[-0.24865 , -0.02805]	0.95024
HellingerBD	[-0.28745 , -0.12545]	0.95024
ID3	[-0.1706 , 0.0069]	0.95024
IDD	[-0.1149 , 0.02445]	0.95024
Khiops	[-0.30145 , -0.13005]	0.95024
MDLP	[-0.3251 , -0.15055]	0.95024
Modified Chi2	[-0.2759 , -0.10635]	0.95024
MODL	[-0.27435 , -0.1064]	0.95024
MVD	[-0.19545 , 0]	0.95024
PKID	[-0.2073 , -0.0288]	0.95024
UCPD	[-0.294 , -0.14355]	0.95024
USD	[-0.22335 , -0.0218]	0.95024
Zeta	[-0.32445 , -0.14455]	0.95024

Table 57: Confidence intervals for algorithm Heter-Disc (α=0.95)

20 Detailed results for ID3

20.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	371.0	449.0	≥ 0.2	1
Ameva	97.5	722.5	≥ 0.2	1
Bayesian	350.0	470.0	≥ 0.2	1
CACC	142.5	677.5	≥ 0.2	1
CADD	597.5	222.5	≥ 0.2	0.829013
CAIM	39.5	743.5	≥ 0.2	1
Chi2	106.5	678.5	≥ 0.2	1
ChiMerge	54.5	765.5	≥ 0.2	1
ClusterAnalysis	372.0	415.0	≥ 0.2	1
DIBD	217.0	603.0	≥ 0.2	1
Distance	106.5	713.5	≥ 0.2	1
EqualFrequency	63.5	756.5	≥ 0.2	1
EqualWidth	128.5	691.5	≥ 0.2	1
Extended Chi2	123.0	697.0	≥ 0.2	1
FFD	170.5	622.5	≥ 0.2	1
FUSINTER	45.0	735.0	≥ 0.2	1
HDD	177.5	642.5	≥ 0.2	1
HellingerBD	118.0	665.0	≥ 0.2	1
Heter-Disc	510.0	277.0	≥ 0.2	0.943023
IDD	348.0	439.0	≥ 0.2	1
Khiops	76.0	707.0	≥ 0.2	1
MDLP	85.5	734.5	≥ 0.2	1
Modified Chi2	94.5	725.5	≥ 0.2	1
MODL	89.0	731.0	≥ 0.2	1
MVD	313.0	474.0	≥ 0.2	1
PKID	153.5	639.5	≥ 0.2	1
UCPD	98.0	722.0	≥ 0.2	1
USD	98.0	693.0	≥ 0.2	1
Zeta	68.5	751.5	≥ 0.2	1

Table 58: Results obtained by the Wilcoxon test for algorithm ID3

20.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[-0.11635 , 0.0972]	0.90276
Ameva	[-0.23425 , -0.11395]	0.90276
Bayesian	[-0.04775 , 0.01475]	0.90276
CACC	[-0.2181 , -0.0683]	0.90276
CADD	[0.04095 , 0.24665]	0.90276
CAIM	[-0.25 , -0.13475]	0.90276
Chi2	[-0.2291 , -0.0808]	0.90276
ChiMerge	[-0.23975 , -0.1263]	0.90276
ClusterAnalysis	[-0.0418 , 0.0104]	0.90276
DIBD	[-0.1919 , -0.0466]	0.90276
Distance	[-0.2454 , -0.0944]	0.90276
EqualFrequency	[-0.16495 , -0.0527]	0.90276
EqualWidth	[-0.14005 , -0.0364]	0.90276
Extended Chi2	[-0.13575 , -0.03795]	0.90276
FFD	[-0.0808 , -0.0051]	0.90276
FUSINTER	[-0.2495 , -0.1064]	0.90276
HDD	[-0.06065 , -0.00115]	0.90276
HellingerBD	[-0.19605 , -0.0663]	0.90276
Heter-Disc	[0 , 0.14375]	0.90276
IDD	[-0.06725 , 0.05315]	0.90276
Khiops	[-0.21985 , -0.0802]	0.90276
MDLP	[-0.2541 , -0.09655]	0.90276
Modified Chi2	[-0.19545 , -0.0642]	0.90276
MODL	[-0.16895 , -0.07645]	0.90276
MVD	[-0.0804 , 0.01825]	0.90276
PKID	[-0.06745 , -0.0133]	0.90276
UCPD	[-0.21785 , -0.09455]	0.90276
USD	[-0.07485 , -0.01945]	0.90276
Zeta	[-0.2242 , -0.1165]	0.90276

Table 59: Confidence intervals for algorithm ID3 (α=0.90)

α=0.95	Confidence interval	Exact confidence
1R	[-0.13555 , 0.1187]	0.95024
Ameva	[-0.2443 , -0.10915]	0.95024
Bayesian	[-0.0556 , 0.01825]	0.95024
CACC	[-0.2297 , -0.0618]	0.95024
CADD	[0.0161 , 0.2636]	0.95024
CAIM	[-0.25895 , -0.12645]	0.95024
Chi2	[-0.2359 , -0.06235]	0.95024
ChiMerge	[-0.24945 , -0.1187]	0.95024
ClusterAnalysis	[-0.0537 , 0.01565]	0.95024
DIBD	[-0.2041 , -0.0328]	0.95024
Distance	[-0.2538 , -0.0817]	0.95024
EqualFrequency	[-0.1751 , -0.04925]	0.95024
EqualWidth	[-0.15485 , -0.0341]	0.95024
Extended Chi2	[-0.15385 , -0.0342]	0.95024
FFD	[-0.08445 , -0.0027]	0.95024
FUSINTER	[-0.26015 , -0.0962]	0.95024
HDD	[-0.06885 , -0.0002]	0.95024
HellingerBD	[-0.20955 , -0.05105]	0.95024
Heter-Disc	[-0.0069 , 0.1706]	0.95024
IDD	[-0.07225 , 0.09155]	0.95024
Khiops	[-0.2265 , -0.06735]	0.95024
MDLP	[-0.2635 , -0.08525]	0.95024
Modified Chi2	[-0.20735 , -0.0539]	0.95024
MODL	[-0.17805 , -0.06505]	0.95024
MVD	[-0.0968 , 0.03285]	0.95024
PKID	[-0.0694 , -0.0075]	0.95024
UCPD	[-0.2334 , -0.0828]	0.95024
USD	[-0.0771 , -0.01495]	0.95024
Zeta	[-0.23515 , -0.10835]	0.95024

Table 60: Confidence intervals for algorithm ID3 (α=0.95)

21 Detailed results for IDD

21.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	329.5	459.5	≥ 0.2	1
Ameva	70.0	750.0	≥ 0.2	1
Bayesian	412.0	375.0	≥ 0.2	1
CACC	103.0	717.0	≥ 0.2	1
CADD	718.0	102.0	0.0204	0.020816
CAIM	25.0	795.0	≥ 0.2	1
Chi2	77.5	742.5	≥ 0.2	1
ChiMerge	27.0	793.0	≥ 0.2	1
ClusterAnalysis	348.5	436.5	≥ 0.2	1
DIBD	134.0	646.0	≥ 0.2	1
Distance	51.0	729.0	≥ 0.2	1
EqualFrequency	127.0	656.0	≥ 0.2	1
EqualWidth	156.0	664.0	≥ 0.2	1
Extended Chi2	182.0	638.0	≥ 0.2	1
FFD	270.5	514.5	≥ 0.2	1
FUSINTER	45.0	775.0	≥ 0.2	1
HDD	236.5	548.5	≥ 0.2	1
HellingerBD	110.0	710.0	≥ 0.2	1
Heter-Disc	475.0	345.0	≥ 0.2	1
ID3	439.0	348.0	≥ 0.2	1
Khiops	99.5	720.5	≥ 0.2	1
MDLP	40.0	780.0	≥ 0.2	1
Modified Chi2	108.5	676.5	≥ 0.2	1
MODL	71.5	748.5	≥ 0.2	1
MVD	315.5	504.5	≥ 0.2	1
PKID	308.0	479.0	≥ 0.2	1
UCPD	93.0	727.0	≥ 0.2	1
USD	362.5	457.5	≥ 0.2	1
Zeta	30.0	790.0	≥ 0.2	1

Table 61: Results obtained by the Wilcoxon test for algorithm IDD

21.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[-0.0373 , 0.00275]	0.90276
Ameva	[-0.24925 , -0.12345]	0.90276
Bayesian	[-0.0175 , 0.0199]	0.90276
CACC	[-0.23365 , -0.101]	0.90276
CADD	[0.0291 , 0.1703]	0.90276
CAIM	[-0.2612 , -0.14405]	0.90276
Chi2	[-0.24105 , -0.09965]	0.90276
ChiMerge	[-0.25025 , -0.1248]	0.90276
ClusterAnalysis	[-0.073 , 0.0312]	0.90276
DIBD	[-0.18245 , -0.06695]	0.90276
Distance	[-0.2502 , -0.121]	0.90276
EqualFrequency	[-0.1881 , -0.0642]	0.90276
EqualWidth	[-0.1786 , -0.0509]	0.90276
Extended Chi2	[-0.18325 , -0.03835]	0.90276
FFD	[-0.13505 , 0]	0.90276
FUSINTER	[-0.2692 , -0.115]	0.90276
HDD	[-0.13575 , -0.0115]	0.90276
HellingerBD	[-0.21275 , -0.09035]	0.90276
Heter-Disc	[-0.0176 , 0.09175]	0.90276
ID3	[-0.05315 , 0.06725]	0.90276
Khiops	[-0.22635 , -0.0978]	0.90276
MDLP	[-0.25645 , -0.1307]	0.90276
Modified Chi2	[-0.2224 , -0.06915]	0.90276
MODL	[-0.19235 , -0.07095]	0.90276
MVD	[-0.10045 , 0.0167]	0.90276
PKID	[-0.12665 , 0.0071]	0.90276
UCPD	[-0.2364 , -0.1033]	0.90276
USD	[-0.10145 , 0.0114]	0.90276
Zeta	[-0.23705 , -0.11175]	0.90276

Table 62: Confidence intervals for algorithm IDD (α=0.90)

α=0.95	Confidence interval	Exact confidence
1R	[-0.0408 , 0.0149]	0.95024
Ameva	[-0.26255 , -0.1139]	0.95024
Bayesian	[-0.0399 , 0.0242]	0.95024
CACC	[-0.24815 , -0.0876]	0.95024
CADD	[0.02825 , 0.17805]	0.95024
CAIM	[-0.26965 , -0.13525]	0.95024
Chi2	[-0.2496 , -0.0794]	0.95024
ChiMerge	[-0.2607 , -0.1142]	0.95024
ClusterAnalysis	[-0.08435 , 0.036]	0.95024
DIBD	[-0.19495 , -0.05485]	0.95024
Distance	[-0.26205 , -0.11085]	0.95024
EqualFrequency	[-0.20535 , -0.0578]	0.95024
EqualWidth	[-0.20205 , -0.04045]	0.95024
Extended Chi2	[-0.19645 , -0.0309]	0.95024
FFD	[-0.14745 , 0.0055]	0.95024
FUSINTER	[-0.27825 , -0.10415]	0.95024
HDD	[-0.1478 , -0.005]	0.95024
HellingerBD	[-0.2301 , -0.08065]	0.95024
Heter-Disc	[-0.02445 , 0.1149]	0.95024
ID3	[-0.09155 , 0.07225]	0.95024
Khiops	[-0.235 , -0.09]	0.95024
MDLP	[-0.26395 , -0.11775]	0.95024
Modified Chi2	[-0.23505 , -0.043]	0.95024
MODL	[-0.20225 , -0.0628]	0.95024
MVD	[-0.12145 , 0.0226]	0.95024
PKID	[-0.1346 , 0.0118]	0.95024
UCPD	[-0.244 , -0.09175]	0.95024
USD	[-0.12455 , 0.0143]	0.95024
Zeta	[-0.2461 , -0.10005]	0.95024

Table 63: Confidence intervals for algorithm IDD (α=0.95)

22 Detailed results for Khiops

22.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	676.5	143.5	6.629E-4	0.000969
Ameva	296.0	484.0	≥ 0.2	1
Bayesian	643.0	137.0	2.34E-4	0.000404
CACC	302.0	478.0	≥ 0.2	1
CADD	776.0	4.0	2.546E-11	0
CAIM	230.0	590.0	≥ 0.2	1
Chi2	347.5	472.5	≥ 0.2	1
ChiMerge	258.0	522.0	≥ 0.2	1
ClusterAnalysis	693.0	87.0	5.268E-6	0.000023
DIBD	563.0	257.0	0.03944	0.03909
Distance	215.0	565.0	≥ 0.2	1
EqualFrequency	500.0	283.0	≥ 0.2	0.296985
EqualWidth	587.5	232.5	0.045270000000000005	0.044583
Extended Chi2	457.0	323.0	≥ 0.2	0.346212
FFD	670.0	113.0	1.6306E-4	0.000311
FUSINTER	217.5	602.5	≥ 0.2	1
HDD	540.0	245.0	≥ 0.2	0.247232
HellingerBD	462.0	318.0	≥ 0.2	0.310819
Heter-Disc	730.0	50.0	1.143E-7	0.000002
ID3	707.0	76.0	7.416E-6	0.000031
IDD	720.5	99.5	2.987E-5	0.000082
MDLP	177.0	603.0	≥ 0.2	1
Modified Chi2	430.0	353.0	≥ 0.2	1
MODL	364.5	455.5	≥ 0.2	1
MVD	590.5	229.5	0.040639999999999996	0.040163
PKID	712.0	108.0	2.158E-4	0.000386
UCPD	414.0	406.0	≥ 0.2	0.951769
USD	614.0	169.0	0.005074	0.005766
Zeta	293.0	487.0	≥ 0.2	1

Table 64: Results obtained by the Wilcoxon test for algorithm Khiops

22.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[0.0616 , 0.24345]	0.90276
Ameva	[-0.0404 , 0.0049]	0.90276
Bayesian	[0.06905 , 0.192]	0.90276
CACC	[-0.0349 , 0.0053]	0.90276
CADD	[0.2459 , 0.39985]	0.90276
CAIM	[-0.05365 , -0.01255]	0.90276
Chi2	[-0.02975 , 0.0096]	0.90276
ChiMerge	[-0.0464 , -0.00295]	0.90276
ClusterAnalysis	[0.07525 , 0.17955]	0.90276
DIBD	[0.0057 , 0.0639]	0.90276
Distance	[-0.03955 , -0.00765]	0.90276
EqualFrequency	[-0.0011 , 0.03635]	0.90276
EqualWidth	[0.012 , 0.06195]	0.90276
Extended Chi2	[-0.0141 , 0.07355]	0.90276
FFD	[0.03875 , 0.1101]	0.90276
FUSINTER	[-0.0431 , -0.01035]	0.90276
HDD	[0.004 , 0.11505]	0.90276
HellingerBD	[-0.00715 , 0.03275]	0.90276
Heter-Disc	[0.142 , 0.2812]	0.90276
ID3	[0.0802 , 0.21985]	0.90276
IDD	[0.0978 , 0.22635]	0.90276
MDLP	[-0.0437 , -0.0144]	0.90276
Modified Chi2	[-0.0143 , 0.02775]	0.90276
MODL	[-0.025 , 0.01455]	0.90276
MVD	[0.0211 , 0.2078]	0.90276
PKID	[0.03815 , 0.1255]	0.90276
UCPD	[-0.0198 , 0.0152]	0.90276
USD	[0.0254 , 0.1444]	0.90276
Zeta	[-0.0371 , 0.00425]	0.90276

Table 65: Confidence intervals for algorithm Khiops (α=0.90)

α=0.95	Confidence interval	Exact confidence
1R	[0.05295 , 0.25215]	0.95024
Ameva	[-0.04495 , 0.0093]	0.95024
Bayesian	[0.05605 , 0.2055]	0.95024
CACC	[-0.0372 , 0.0085]	0.95024
CADD	[0.2339 , 0.4136]	0.95024
CAIM	[-0.0579 , -0.00715]	0.95024
Chi2	[-0.0329 , 0.01345]	0.95024
ChiMerge	[-0.0503 , 0.00135]	0.95024
ClusterAnalysis	[0.066 , 0.1908]	0.95024
DIBD	[0.0009 , 0.0729]	0.95024
Distance	[-0.0423 , -0.0046]	0.95024
EqualFrequency	[-0.0056 , 0.0416]	0.95024
EqualWidth	[0.00755 , 0.069]	0.95024
Extended Chi2	[-0.0216 , 0.0865]	0.95024
FFD	[0.0332 , 0.11835]	0.95024
FUSINTER	[-0.0471 , -0.00615]	0.95024
HDD	[0 , 0.1326]	0.95024
HellingerBD	[-0.01275 , 0.0369]	0.95024
Heter-Disc	[0.13005 , 0.30145]	0.95024
ID3	[0.06735 , 0.2265]	0.95024
IDD	[0.09 , 0.235]	0.95024
MDLP	[-0.04555 , -0.0113]	0.95024
Modified Chi2	[-0.01735 , 0.032]	0.95024
MODL	[-0.02805 , 0.01865]	0.95024
MVD	[0.0139 , 0.2161]	0.95024
PKID	[0.03165 , 0.1347]	0.95024
UCPD	[-0.02475 , 0.01805]	0.95024
USD	[0.0186 , 0.15855]	0.95024
Zeta	[-0.0397 , 0.0093]	0.95024

Table 66: Confidence intervals for algorithm Khiops (α=0.95)

23 Detailed results for MDLP

23.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	727.0	93.0	4.528E-6	0.00002
Ameva	447.5	372.5	≥ 0.2	1
Bayesian	706.0	74.0	1.5624E-6	0.00001
CACC	469.0	314.0	≥ 0.2	0.566456
CADD	770.0	10.0	1.5644E-10	0
CAIM	389.5	430.5	≥ 0.2	1
Chi2	513.5	306.5	≥ 0.2	0.349584
ChiMerge	423.0	360.0	≥ 0.2	1
ClusterAnalysis	716.5	63.5	5.333E-7	0.000005
DIBD	677.0	103.0	2.03E-5	0.00006
Distance	526.0	294.0	≥ 0.2	0.534884
EqualFrequency	605.5	214.5	0.022920000000000003	0.023231
EqualWidth	632.0	148.0	4.662E-4	0.000714
Extended Chi2	577.0	243.0	0.02408	0.024359
FFD	696.5	123.5	1.8018E-4	0.000332
FUSINTER	392.0	388.0	≥ 0.2	0.972169
HDD	639.5	180.5	0.00506	0.005733
HellingerBD	596.5	223.5	0.03252	0.032429
Heter-Disc	782.0	38.0	1.2008E-8	0.000001
ID3	734.5	85.5	9.073E-6	0.000035
IDD	780.0	40.0	1.582E-8	0.000001
Khiops	603.0	177.0	0.002362	0.00284
Modified Chi2	522.0	258.0	0.0661	0.064452
MODL	585.0	235.0	0.12664	0.121013
MVD	661.0	119.0	6.838E-5	0.000151
PKID	666.0	114.0	4.74E-5	0.000114
UCPD	592.0	228.0	0.013558	0.014166
USD	639.0	141.0	3.022E-4	0.000498
Zeta	498.5	321.5	≥ 0.2	0.472842

Table 67: Results obtained by the Wilcoxon test for algorithm MDLP

23.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[0.10445 , 0.26735]	0.90276
Ameva	[-0.01125 , 0.02275]	0.90276
Bayesian	[0.08615 , 0.2207]	0.90276
CACC	[-0.0031 , 0.0229]	0.90276
CADD	[0.28075 , 0.4244]	0.90276
CAIM	[-0.02085 , 0.00875]	0.90276
Chi2	[-0.00205 , 0.02795]	0.90276
ChiMerge	[-0.012 , 0.02165]	0.90276
ClusterAnalysis	[0.0986 , 0.2186]	0.90276
DIBD	[0.0334 , 0.08035]	0.90276
Distance	[-0.00025 , 0.01295]	0.90276
EqualFrequency	[0.0172 , 0.0684]	0.90276
EqualWidth	[0.0351 , 0.0927]	0.90276
Extended Chi2	[0.00685 , 0.0908]	0.90276
FFD	[0.0543 , 0.1429]	0.90276
FUSINTER	[-0.0116 , 0.0106]	0.90276
HDD	[0.02185 , 0.1263]	0.90276
HellingerBD	[0.01485 , 0.0641]	0.90276
Heter-Disc	[0.16505 , 0.30965]	0.90276
ID3	[0.09655 , 0.2541]	0.90276
IDD	[0.1307 , 0.25645]	0.90276
Khiops	[0.0144 , 0.0437]	0.90276
Modified Chi2	[0.0021 , 0.0504]	0.90276
MODL	[0.00325 , 0.0358]	0.90276
MVD	[0.0444 , 0.22515]	0.90276
PKID	[0.05885 , 0.15935]	0.90276
UCPD	[0.00775 , 0.04025]	0.90276
USD	[0.0377 , 0.17195]	0.90276
Zeta	[-0.00385 , 0.0305]	0.90276

Table 68: Confidence intervals for algorithm MDLP (α=0.90)

α=0.95	Confidence interval	Exact confidence
1R	[0.08925 , 0.2837]	0.95024
Ameva	[-0.0147 , 0.02565]	0.95024
Bayesian	[0.0683 , 0.2387]	0.95024
CACC	[-0.00595 , 0.0268]	0.95024
CADD	[0.26945 , 0.443]	0.95024
CAIM	[-0.0253 , 0.01155]	0.95024
Chi2	[-0.0045 , 0.0313]	0.95024
ChiMerge	[-0.01815 , 0.02545]	0.95024
ClusterAnalysis	[0.0907 , 0.2277]	0.95024
DIBD	[0.0295 , 0.0862]	0.95024
Distance	[-0.00165 , 0.01365]	0.95024
EqualFrequency	[0.0112 , 0.0733]	0.95024
EqualWidth	[0.0301 , 0.099]	0.95024
Extended Chi2	[0.0025 , 0.10135]	0.95024
FFD	[0.0481 , 0.1536]	0.95024
FUSINTER	[-0.0135 , 0.0123]	0.95024
HDD	[0.0168 , 0.1519]	0.95024
HellingerBD	[0.00965 , 0.06935]	0.95024
Heter-Disc	[0.15055 , 0.3251]	0.95024
ID3	[0.08525 , 0.2635]	0.95024
IDD	[0.11775 , 0.26395]	0.95024
Khiops	[0.0113 , 0.04555]	0.95024
Modified Chi2	[-0.0017 , 0.0547]	0.95024
MODL	[0.0016 , 0.04125]	0.95024
MVD	[0.0401 , 0.2365]	0.95024
PKID	[0.0499 , 0.1684]	0.95024
UCPD	[0.00445 , 0.04285]	0.95024
USD	[0.02865 , 0.18785]	0.95024
Zeta	[-0.01035 , 0.03375]	0.95024

Table 69: Confidence intervals for algorithm MDLP (α=0.95)

24 Detailed results for Modified Chi2

24.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	602.0	181.0	0.009172	0.009887
Ameva	290.0	490.0	≥ 0.2	1
Bayesian	669.5	115.5	7.056E-4	0.001054
CACC	322.0	458.0	≥ 0.2	1
CADD	765.5	19.5	1.9735E-8	0.000001
CAIM	198.0	582.0	≥ 0.2	1
Chi2	319.0	468.0	≥ 0.2	1
ChiMerge	226.5	556.5	≥ 0.2	1
ClusterAnalysis	714.0	69.0	3.724E-6	0.00002
DIBD	493.0	327.0	≥ 0.2	0.261714
Distance	319.0	461.0	≥ 0.2	1
EqualFrequency	424.0	396.0	≥ 0.2	1
EqualWidth	513.5	271.5	≥ 0.2	0.471105
Extended Chi2	426.0	357.0	≥ 0.2	1
FFD	619.0	166.0	0.013682	0.014139
FUSINTER	257.0	563.0	≥ 0.2	1
HDD	536.5	283.5	≥ 0.2	0.804212
HellingerBD	413.0	367.0	≥ 0.2	0.742955
Heter-Disc	712.0	71.0	4.552E-6	0.000022
ID3	725.5	94.5	2.796E-4	0.000503
IDD	676.5	108.5	4.278E-4	0.000698
Khiops	353.0	430.0	≥ 0.2	1
MDLP	258.0	522.0	≥ 0.2	1
MODL	398.0	422.0	≥ 0.2	1
MVD	605.0	215.0	0.06442	0.062645
PKID	669.5	150.5	0.010945	0.011678
UCPD	397.0	423.0	≥ 0.2	1
USD	606.5	213.5	0.15524	0.148555
Zeta	290.0	490.0	≥ 0.2	1

Table 70: Results obtained by the Wilcoxon test for algorithm Modified Chi2

24.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[0.03405 , 0.23965]	0.90276
Ameva	[-0.0602 , 0.00455]	0.90276
Bayesian	[0.0453 , 0.1618]	0.90276
CACC	[-0.03985 , 0.0115]	0.90276
CADD	[0.22575 , 0.3862]	0.90276
CAIM	[-0.07265 , -0.0168]	0.90276
Chi2	[-0.0279 , 0.00145]	0.90276
ChiMerge	[-0.0614 , -0.00765]	0.90276
ClusterAnalysis	[0.0591 , 0.15945]	0.90276
DIBD	[-0.00895 , 0.0484]	0.90276
Distance	[-0.04565 , 0.0081]	0.90276
EqualFrequency	[-0.0147 , 0.0315]	0.90276
EqualWidth	[0 , 0.051]	0.90276
Extended Chi2	[-0.013 , 0.02245]	0.90276
FFD	[0.0215 , 0.1002]	0.90276
FUSINTER	[-0.03625 , -0.0031]	0.90276
HDD	[0 , 0.0749]	0.90276
HellingerBD	[-0.0203 , 0.0404]	0.90276
Heter-Disc	[0.116 , 0.26165]	0.90276
ID3	[0.0642 , 0.19545]	0.90276
IDD	[0.06915 , 0.2224]	0.90276
Khiops	[-0.02775 , 0.0143]	0.90276
MDLP	[-0.0504 , -0.0021]	0.90276
MODL	[-0.0214 , 0.01]	0.90276
MVD	[0.02105 , 0.1778]	0.90276
PKID	[0.02005 , 0.09615]	0.90276
UCPD	[-0.0298 , 0.0176]	0.90276
USD	[0.00865 , 0.0968]	0.90276
Zeta	[-0.05 , 0.0042]	0.90276

Table 71: Confidence intervals for algorithm Modified Chi2 (α=0.90)

α=0.95	Confidence interval	Exact confidence
1R	[0.0237 , 0.261]	0.95024
Ameva	[-0.06685 , 0.0101]	0.95024
Bayesian	[0.0379 , 0.17595]	0.95024
CACC	[-0.0453 , 0.01755]	0.95024
CADD	[0.20835 , 0.411]	0.95024
CAIM	[-0.0802 , -0.0111]	0.95024
Chi2	[-0.0318 , 0.0038]	0.95024
ChiMerge	[-0.06695 , -0.00305]	0.95024
ClusterAnalysis	[0.05425 , 0.1706]	0.95024
DIBD	[-0.0167 , 0.05575]	0.95024
Distance	[-0.0535 , 0.0108]	0.95024
EqualFrequency	[-0.018 , 0.0378]	0.95024
EqualWidth	[-0.00245 , 0.0584]	0.95024
Extended Chi2	[-0.01985 , 0.06905]	0.95024
FFD	[0.0176 , 0.1102]	0.95024
FUSINTER	[-0.04005 , -0.00065]	0.95024
HDD	[-0.00175 , 0.08545]	0.95024
HellingerBD	[-0.02645 , 0.0456]	0.95024
Heter-Disc	[0.10635 , 0.2759]	0.95024
ID3	[0.0539 , 0.20735]	0.95024
IDD	[0.043 , 0.23505]	0.95024
Khiops	[-0.032 , 0.01735]	0.95024
MDLP	[-0.0547 , 0.0017]	0.95024
MODL	[-0.0252 , 0.0117]	0.95024
MVD	[0.0156 , 0.19465]	0.95024
PKID	[0.0174 , 0.1111]	0.95024
UCPD	[-0.0377 , 0.02035]	0.95024
USD	[0.00615 , 0.10995]	0.95024
Zeta	[-0.05415 , 0.00895]	0.95024

Table 72: Confidence intervals for algorithm Modified Chi2 (α=0.95)

25 Detailed results for MODL

25.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	671.5	148.5	8.962E-4	0.001252
Ameva	306.5	513.5	≥ 0.2	1
Bayesian	745.5	74.5	3.252E-6	0.000017
CACC	329.0	454.0	≥ 0.2	1
CADD	791.5	28.5	1.1721E-8	0.000001
CAIM	194.5	625.5	≥ 0.2	1
Chi2	399.0	421.0	≥ 0.2	1
ChiMerge	231.5	553.5	≥ 0.2	1
ClusterAnalysis	723.0	57.0	2.602E-7	0.000003
DIBD	515.0	305.0	0.16178	0.156174
Distance	321.0	499.0	≥ 0.2	1
EqualFrequency	502.5	317.5	≥ 0.2	0.437825
EqualWidth	559.5	260.5	0.113	0.109045
Extended Chi2	432.0	351.0	≥ 0.2	0.987963
FFD	634.0	149.0	0.001705	0.002195
FUSINTER	222.0	561.0	≥ 0.2	1
HDD	539.0	281.0	≥ 0.2	0.409482
HellingerBD	487.5	332.5	≥ 0.2	0.576614
Heter-Disc	699.0	81.0	3.05E-6	0.000016
ID3	731.0	89.0	4.722E-5	0.000122
IDD	748.5	71.5	2.4199999999999997E-6	0.000014
Khiops	455.5	364.5	≥ 0.2	0.924763
MDLP	235.0	585.0	≥ 0.2	1
Modified Chi2	422.0	398.0	≥ 0.2	1
MVD	653.5	166.5	0.00247	0.00302
PKID	640.0	143.0	0.0011958	0.001616
UCPD	411.0	409.0	≥ 0.2	0.983914
USD	650.0	133.0	6.42E-4	0.000954
Zeta	315.5	504.5	≥ 0.2	1

Table 73: Results obtained by the Wilcoxon test for algorithm MODL

25.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[0.03745 , 0.1987]	0.90276
Ameva	[-0.07115 , 0.00415]	0.90276
Bayesian	[0.05605 , 0.1519]	0.90276
CACC	[-0.0292 , 0.0083]	0.90276
CADD	[0.2151 , 0.37805]	0.90276
CAIM	[-0.07935 , -0.01065]	0.90276
Chi2	[-0.01945 , 0.0141]	0.90276
ChiMerge	[-0.06195 , -0.00335]	0.90276
ClusterAnalysis	[0.06885 , 0.14475]	0.90276
DIBD	[-0.00565 , 0.05345]	0.90276
Distance	[-0.0323 , 0.0037]	0.90276
EqualFrequency	[-0.0046 , 0.0377]	0.90276
EqualWidth	[0.007 , 0.05355]	0.90276
Extended Chi2	[-0.0097 , 0.0545]	0.90276
FFD	[0.0354 , 0.09055]	0.90276
FUSINTER	[-0.02625 , -0.0043]	0.90276
HDD	[0.0013 , 0.08455]	0.90276
HellingerBD	[-0.01145 , 0.0401]	0.90276
Heter-Disc	[0.119 , 0.25595]	0.90276
ID3	[0.07645 , 0.16895]	0.90276
IDD	[0.07095 , 0.19235]	0.90276
Khiops	[-0.01455 , 0.025]	0.90276
MDLP	[-0.0358 , -0.00325]	0.90276
Modified Chi2	[-0.01 , 0.0214]	0.90276
MVD	[0.0258 , 0.13135]	0.90276
PKID	[0.03985 , 0.0999]	0.90276
UCPD	[-0.026 , 0.02235]	0.90276
USD	[0.02805 , 0.0941]	0.90276
Zeta	[-0.0523 , 0.0043]	0.90276

Table 74: Confidence intervals for algorithm MODL (α=0.90)

α=0.95	Confidence interval	Exact confidence
1R	[0.02915 , 0.21295]	0.95024
Ameva	[-0.08015 , 0.0084]	0.95024
Bayesian	[0.04845 , 0.1618]	0.95024
CACC	[-0.03875 , 0.01425]	0.95024
CADD	[0.20425 , 0.40005]	0.95024
CAIM	[-0.0912 , -0.00875]	0.95024
Chi2	[-0.0237 , 0.0176]	0.95024
ChiMerge	[-0.07185 , -0.0012]	0.95024
ClusterAnalysis	[0.0614 , 0.15205]	0.95024
DIBD	[-0.0117 , 0.05855]	0.95024
Distance	[-0.04235 , 0.00575]	0.95024
EqualFrequency	[-0.0085 , 0.0408]	0.95024
EqualWidth	[0.00075 , 0.0576]	0.95024
Extended Chi2	[-0.0131 , 0.0615]	0.95024
FFD	[0.031 , 0.09715]	0.95024
FUSINTER	[-0.0313 , -0.00265]	0.95024
HDD	[-0.00205 , 0.09465]	0.95024
HellingerBD	[-0.0187 , 0.0432]	0.95024
Heter-Disc	[0.1064 , 0.27435]	0.95024
ID3	[0.06505 , 0.17805]	0.95024
IDD	[0.0628 , 0.20225]	0.95024
Khiops	[-0.01865 , 0.02805]	0.95024
MDLP	[-0.04125 , -0.0016]	0.95024
Modified Chi2	[-0.0117 , 0.0252]	0.95024
MVD	[0.01985 , 0.17635]	0.95024
PKID	[0.03 , 0.10555]	0.95024
UCPD	[-0.03435 , 0.0264]	0.95024
USD	[0.0243 , 0.1074]	0.95024
Zeta	[-0.0656 , 0.007]	0.95024

Table 75: Confidence intervals for algorithm MODL (α=0.95)

26 Detailed results for MVD

26.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	457.0	363.0	≥ 0.2	1
Ameva	118.0	702.0	≥ 0.2	1
Bayesian	471.0	349.0	≥ 0.2	1
CACC	174.5	645.5	≥ 0.2	1
CADD	669.5	119.5	0.010686	0.011473
CAIM	91.0	689.0	≥ 0.2	1
Chi2	192.5	627.5	≥ 0.2	1
ChiMerge	88.0	732.0	≥ 0.2	1
ClusterAnalysis	436.5	383.5	≥ 0.2	1
DIBD	257.0	526.0	≥ 0.2	1
Distance	186.0	634.0	≥ 0.2	1
EqualFrequency	238.5	546.5	≥ 0.2	1
EqualWidth	241.0	542.0	≥ 0.2	1
Extended Chi2	288.0	532.0	≥ 0.2	1
FFD	343.0	477.0	≥ 0.2	1
FUSINTER	88.0	692.0	≥ 0.2	1
HDD	326.0	494.0	≥ 0.2	1
HellingerBD	227.0	593.0	≥ 0.2	1
Heter-Disc	566.0	254.0	≥ 0.2	0.844345
ID3	474.0	313.0	≥ 0.2	1
IDD	504.5	315.5	≥ 0.2	1
Khiops	229.5	590.5	≥ 0.2	1
MDLP	119.0	661.0	≥ 0.2	1
Modified Chi2	215.0	605.0	≥ 0.2	1
MODL	166.5	653.5	≥ 0.2	1
PKID	377.0	443.0	≥ 0.2	1
UCPD	212.0	608.0	≥ 0.2	1
USD	361.0	426.0	≥ 0.2	1
Zeta	147.0	673.0	≥ 0.2	1

Table 76: Results obtained by the Wilcoxon test for algorithm MVD

26.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[-0.0337 , 0.109]	0.90276
Ameva	[-0.19245 , -0.06725]	0.90276
Bayesian	[-0.0159 , 0.0599]	0.90276
CACC	[-0.18145 , -0.0273]	0.90276
CADD	[0.11275 , 0.25615]	0.90276
CAIM	[-0.2188 , -0.08205]	0.90276
Chi2	[-0.1954 , -0.02705]	0.90276
ChiMerge	[-0.2046 , -0.07345]	0.90276
ClusterAnalysis	[-0.02975 , 0.055]	0.90276
DIBD	[-0.12895 , -0.00455]	0.90276
Distance	[-0.21975 , -0.0322]	0.90276
EqualFrequency	[-0.16225 , -0.00755]	0.90276
EqualWidth	[-0.13725 , -0.0052]	0.90276
Extended Chi2	[-0.1347 , 0]	0.90276
FFD	[-0.12035 , 0.01995]	0.90276
FUSINTER	[-0.218 , -0.0431]	0.90276
HDD	[-0.0986 , 0.0071]	0.90276
HellingerBD	[-0.19065 , -0.02345]	0.90276
Heter-Disc	[0.00345 , 0.1742]	0.90276
ID3	[-0.01825 , 0.0804]	0.90276
IDD	[-0.0167 , 0.10045]	0.90276
Khiops	[-0.2078 , -0.0211]	0.90276
MDLP	[-0.22515 , -0.0444]	0.90276
Modified Chi2	[-0.1778 , -0.02105]	0.90276
MODL	[-0.13135 , -0.0258]	0.90276
PKID	[-0.0897 , 0.0279]	0.90276
UCPD	[-0.18995 , -0.0287]	0.90276
USD	[-0.0653 , 0.0247]	0.90276
Zeta	[-0.1915 , -0.0562]	0.90276

Table 77: Confidence intervals for algorithm MVD (α=0.90)

α=0.95	Confidence interval	Exact confidence
1R	[-0.04 , 0.12725]	0.95024
Ameva	[-0.1999 , -0.0518]	0.95024
Bayesian	[-0.0253 , 0.0683]	0.95024
CACC	[-0.1934 , -0.02025]	0.95024
CADD	[0.08965 , 0.26755]	0.95024
CAIM	[-0.23335 , -0.0713]	0.95024
Chi2	[-0.2054 , -0.0187]	0.95024
ChiMerge	[-0.2161 , -0.06505]	0.95024
ClusterAnalysis	[-0.0404 , 0.0715]	0.95024
DIBD	[-0.1546 , 0.0037]	0.95024
Distance	[-0.23335 , -0.02485]	0.95024
EqualFrequency	[-0.17595 , -0.0015]	0.95024
EqualWidth	[-0.1538 , -0.00215]	0.95024
Extended Chi2	[-0.154 , 0.0075]	0.95024
FFD	[-0.13825 , 0.02615]	0.95024
FUSINTER	[-0.2369 , -0.03735]	0.95024
HDD	[-0.1152 , 0.01785]	0.95024
HellingerBD	[-0.2023 , -0.0149]	0.95024
Heter-Disc	[0 , 0.19545]	0.95024
ID3	[-0.03285 , 0.0968]	0.95024
IDD	[-0.0226 , 0.12145]	0.95024
Khiops	[-0.2161 , -0.0139]	0.95024
MDLP	[-0.2365 , -0.0401]	0.95024
Modified Chi2	[-0.19465 , -0.0156]	0.95024
MODL	[-0.17635 , -0.01985]	0.95024
PKID	[-0.1061 , 0.0401]	0.95024
UCPD	[-0.2027 , -0.01605]	0.95024
USD	[-0.0896 , 0.0382]	0.95024
Zeta	[-0.20335 , -0.04585]	0.95024

Table 78: Confidence intervals for algorithm MVD (α=0.95)

27 Detailed results for PKID

27.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	438.0	382.0	≥ 0.2	1
Ameva	114.5	705.5	≥ 0.2	1
Bayesian	541.5	243.5	≥ 0.2	0.237318
CACC	164.0	616.0	≥ 0.2	1
CADD	709.0	78.0	1.3206E-4	0.000287
CAIM	43.0	737.0	≥ 0.2	1
Chi2	110.0	673.0	≥ 0.2	1
ChiMerge	56.0	724.0	≥ 0.2	1
ClusterAnalysis	555.0	265.0	≥ 0.2	0.281849
DIBD	282.0	538.0	≥ 0.2	1
Distance	122.0	658.0	≥ 0.2	1
EqualFrequency	108.5	711.5	≥ 0.2	1
EqualWidth	255.5	564.5	≥ 0.2	1
Extended Chi2	248.0	572.0	≥ 0.2	1
FFD	374.5	445.5	≥ 0.2	1
FUSINTER	55.0	725.0	≥ 0.2	1
HDD	346.5	442.5	≥ 0.2	1
HellingerBD	159.0	624.0	≥ 0.2	1
Heter-Disc	640.5	179.5	0.014938	0.015343
ID3	639.5	153.5	≥ 0.2	0.387094
IDD	479.0	308.0	≥ 0.2	1
Khiops	108.0	712.0	≥ 0.2	1
MDLP	114.0	666.0	≥ 0.2	1
Modified Chi2	150.5	669.5	≥ 0.2	1
MODL	143.0	640.0	≥ 0.2	1
MVD	443.0	377.0	≥ 0.2	1
UCPD	145.0	675.0	≥ 0.2	1
USD	386.0	401.0	≥ 0.2	1
Zeta	78.0	702.0	≥ 0.2	1

Table 79: Results obtained by the Wilcoxon test for algorithm PKID

27.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[-0.0439 , 0.1542]	0.90276
Ameva	[-0.1505 , -0.0695]	0.90276
Bayesian	[0.00695 , 0.068]	0.90276
CACC	[-0.12685 , -0.0381]	0.90276
CADD	[0.1151 , 0.31125]	0.90276
CAIM	[-0.16725 , -0.0872]	0.90276
Chi2	[-0.121 , -0.0404]	0.90276
ChiMerge	[-0.14995 , -0.08405]	0.90276
ClusterAnalysis	[0.0017 , 0.0653]	0.90276
DIBD	[-0.10115 , -0.0024]	0.90276
Distance	[-0.15935 , -0.059]	0.90276
EqualFrequency	[-0.088 , -0.0268]	0.90276
EqualWidth	[-0.07375 , -0.0059]	0.90276
Extended Chi2	[-0.06865 , -0.00825]	0.90276
FFD	[-0.01585 , 0.0081]	0.90276
FUSINTER	[-0.15645 , -0.0666]	0.90276
HDD	[-0.0274 , 0.00985]	0.90276
HellingerBD	[-0.1082 , -0.02925]	0.90276
Heter-Disc	[0.03555 , 0.18925]	0.90276
ID3	[0.0133 , 0.06745]	0.90276
IDD	[-0.0071 , 0.12665]	0.90276
Khiops	[-0.1255 , -0.03815]	0.90276
MDLP	[-0.15935 , -0.05885]	0.90276
Modified Chi2	[-0.09615 , -0.02005]	0.90276
MODL	[-0.0999 , -0.03985]	0.90276
MVD	[-0.0279 , 0.0897]	0.90276
UCPD	[-0.12715 , -0.0419]	0.90276
USD	[-0.0122 , 0.0123]	0.90276
Zeta	[-0.1393 , -0.06815]	0.90276

Table 80: Confidence intervals for algorithm PKID (α=0.90)

α=0.95	Confidence interval	Exact confidence
1R	[-0.05405 , 0.16985]	0.95024
Ameva	[-0.1618 , -0.0638]	0.95024
Bayesian	[0.00095 , 0.07475]	0.95024
CACC	[-0.14295 , -0.0294]	0.95024
CADD	[0.0997 , 0.3342]	0.95024
CAIM	[-0.17535 , -0.08105]	0.95024
Chi2	[-0.129 , -0.0352]	0.95024
ChiMerge	[-0.1607 , -0.0769]	0.95024
ClusterAnalysis	[0 , 0.0716]	0.95024
DIBD	[-0.11185 , 0.0057]	0.95024
Distance	[-0.1691 , -0.048]	0.95024
EqualFrequency	[-0.0905 , -0.0233]	0.95024
EqualWidth	[-0.0793 , 0]	0.95024
Extended Chi2	[-0.07395 , -0.00375]	0.95024
FFD	[-0.02025 , 0.01235]	0.95024
FUSINTER	[-0.16615 , -0.0597]	0.95024
HDD	[-0.041 , 0.0133]	0.95024
HellingerBD	[-0.11575 , -0.025]	0.95024
Heter-Disc	[0.0288 , 0.2073]	0.95024
ID3	[0.0075 , 0.0694]	0.95024
IDD	[-0.0118 , 0.1346]	0.95024
Khiops	[-0.1347 , -0.03165]	0.95024
MDLP	[-0.1684 , -0.0499]	0.95024
Modified Chi2	[-0.1111 , -0.0174]	0.95024
MODL	[-0.10555 , -0.03]	0.95024
MVD	[-0.0401 , 0.1061]	0.95024
UCPD	[-0.14205 , -0.03595]	0.95024
USD	[-0.0151 , 0.01725]	0.95024
Zeta	[-0.1443 , -0.0621]	0.95024

Table 81: Confidence intervals for algorithm PKID (α=0.95)

28 Detailed results for UCPD

28.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	689.0	131.0	8.252E-5	0.000172
Ameva	316.0	504.0	≥ 0.2	1
Bayesian	722.0	98.0	6.91E-6	0.000027
CACC	298.0	522.0	≥ 0.2	1
CADD	815.0	5.0	1.819E-11	0
CAIM	238.0	582.0	≥ 0.2	1
Chi2	328.0	492.0	≥ 0.2	1
ChiMerge	254.0	566.0	≥ 0.2	1
ClusterAnalysis	754.0	66.0	3.49E-7	0.000004
DIBD	571.0	249.0	0.0299	0.029673
Distance	267.0	553.0	≥ 0.2	1
EqualFrequency	491.0	329.0	≥ 0.2	0.271699
EqualWidth	624.0	196.0	0.003358	0.003937
Extended Chi2	522.5	297.5	0.13332	0.128154
FFD	713.0	107.0	1.43E-5	0.000045
FUSINTER	176.0	644.0	≥ 0.2	1
HDD	549.0	271.0	0.06218	0.060784
HellingerBD	446.0	374.0	≥ 0.2	0.623704
Heter-Disc	796.0	24.0	1.386E-9	0
ID3	722.0	98.0	6.91E-6	0.000027
IDD	727.0	93.0	4.528E-6	0.00002
Khiops	406.0	414.0	≥ 0.2	1
MDLP	228.0	592.0	≥ 0.2	1
Modified Chi2	423.0	397.0	≥ 0.2	0.856008
MODL	409.0	411.0	≥ 0.2	1
MVD	608.0	212.0	0.006956	0.007628
PKID	675.0	145.0	2.06E-4	0.000359
USD	636.0	184.0	0.0018628	0.002253
Zeta	321.0	499.0	≥ 0.2	1

Table 82: Results obtained by the Wilcoxon test for algorithm UCPD

28.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[0.0718 , 0.2436]	0.90276
Ameva	[-0.0388 , 0.00405]	0.90276
Bayesian	[0.08255 , 0.1889]	0.90276
CACC	[-0.0352 , 0.00175]	0.90276
CADD	[0.24735 , 0.3996]	0.90276
CAIM	[-0.0538 , -0.0105]	0.90276
Chi2	[-0.0299 , 0.00635]	0.90276
ChiMerge	[-0.05165 , -0.0047]	0.90276
ClusterAnalysis	[0.0821 , 0.172]	0.90276
DIBD	[0.0053 , 0.06675]	0.90276
Distance	[-0.0374 , -0.00165]	0.90276
EqualFrequency	[-0.00555 , 0.05325]	0.90276
EqualWidth	[0.0159 , 0.0658]	0.90276
Extended Chi2	[-0.00145 , 0.07495]	0.90276
FFD	[0.032 , 0.11765]	0.90276
FUSINTER	[-0.04085 , -0.01115]	0.90276
HDD	[0.0062 , 0.12225]	0.90276
HellingerBD	[-0.0131 , 0.03835]	0.90276
Heter-Disc	[0.15255 , 0.2746]	0.90276
ID3	[0.09455 , 0.21785]	0.90276
IDD	[0.1033 , 0.2364]	0.90276
Khiops	[-0.0152 , 0.0198]	0.90276
MDLP	[-0.04025 , -0.00775]	0.90276
Modified Chi2	[-0.0176 , 0.0298]	0.90276
MODL	[-0.02235 , 0.026]	0.90276
MVD	[0.0287 , 0.18995]	0.90276
PKID	[0.0419 , 0.12715]	0.90276
USD	[0.02725 , 0.1362]	0.90276
Zeta	[-0.03455 , 0.0061]	0.90276

Table 83: Confidence intervals for algorithm UCPD (α=0.90)

α=0.95	Confidence interval	Exact confidence
1R	[0.06245 , 0.25485]	0.95024
Ameva	[-0.04375 , 0.00745]	0.95024
Bayesian	[0.07115 , 0.2037]	0.95024
CACC	[-0.0386 , 0.00475]	0.95024
CADD	[0.2338 , 0.4166]	0.95024
CAIM	[-0.0587 , -0.00515]	0.95024
Chi2	[-0.03305 , 0.01135]	0.95024
ChiMerge	[-0.05465 , -0.00135]	0.95024
ClusterAnalysis	[0.07405 , 0.1838]	0.95024
DIBD	[0.00235 , 0.0777]	0.95024
Distance	[-0.039 , 0.00055]	0.95024
EqualFrequency	[-0.00895 , 0.05925]	0.95024
EqualWidth	[0.0129 , 0.0732]	0.95024
Extended Chi2	[-0.0054 , 0.0839]	0.95024
FFD	[0.0277 , 0.12315]	0.95024
FUSINTER	[-0.04425 , -0.0089]	0.95024
HDD	[-0.0024 , 0.13325]	0.95024
HellingerBD	[-0.0158 , 0.0441]	0.95024
Heter-Disc	[0.14355 , 0.294]	0.95024
ID3	[0.0828 , 0.2334]	0.95024
IDD	[0.09175 , 0.244]	0.95024
Khiops	[-0.01805 , 0.02475]	0.95024
MDLP	[-0.04285 , -0.00445]	0.95024
Modified Chi2	[-0.02035 , 0.0377]	0.95024
MODL	[-0.0264 , 0.03435]	0.95024
MVD	[0.01605 , 0.2027]	0.95024
PKID	[0.03595 , 0.14205]	0.95024
USD	[0.0184 , 0.14985]	0.95024
Zeta	[-0.0391 , 0.0102]	0.95024

Table 84: Confidence intervals for algorithm UCPD (α=0.95)

29 Detailed results for USD

29.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	433.0	387.0	≥ 0.2	1
Ameva	139.0	641.0	≥ 0.2	1
Bayesian	577.0	243.0	≥ 0.2	0.687664
CACC	187.0	593.0	≥ 0.2	1
CADD	690.0	97.0	6.51E-4	0.00101
CAIM	64.0	719.0	≥ 0.2	1
Chi2	194.0	626.0	≥ 0.2	1
ChiMerge	69.0	711.0	≥ 0.2	1
ClusterAnalysis	538.0	282.0	≥ 0.2	0.418461
DIBD	295.0	525.0	≥ 0.2	1
Distance	180.0	600.0	≥ 0.2	1
EqualFrequency	181.0	602.0	≥ 0.2	1
EqualWidth	279.0	541.0	≥ 0.2	1
Extended Chi2	259.0	561.0	≥ 0.2	1
FFD	417.5	367.5	≥ 0.2	1
FUSINTER	110.0	670.0	≥ 0.2	1
HDD	362.5	426.5	≥ 0.2	1
HellingerBD	208.0	572.0	≥ 0.2	1
Heter-Disc	583.0	200.0	0.02146	0.021841
ID3	693.0	98.0	0.008594	0.009465
IDD	457.5	362.5	≥ 0.2	1
Khiops	169.0	614.0	≥ 0.2	1
MDLP	141.0	639.0	≥ 0.2	1
Modified Chi2	213.5	606.5	≥ 0.2	1
MODL	133.0	650.0	≥ 0.2	1
MVD	426.0	361.0	≥ 0.2	1
PKID	401.0	386.0	≥ 0.2	1
UCPD	184.0	636.0	≥ 0.2	1
Zeta	111.5	708.5	≥ 0.2	1

Table 85: Results obtained by the Wilcoxon test for algorithm USD

29.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[-0.03645 , 0.15415]	0.90276
Ameva	[-0.16335 , -0.05795]	0.90276
Bayesian	[0.004 , 0.0374]	0.90276
CACC	[-0.1385 , -0.0321]	0.90276
CADD	[0.1224 , 0.33055]	0.90276
CAIM	[-0.17855 , -0.0714]	0.90276
Chi2	[-0.1319 , -0.021]	0.90276
ChiMerge	[-0.159 , -0.0681]	0.90276
ClusterAnalysis	[0 , 0.05885]	0.90276
DIBD	[-0.1161 , 0.0029]	0.90276
Distance	[-0.1619 , -0.04605]	0.90276
EqualFrequency	[-0.10345 , -0.0166]	0.90276
EqualWidth	[-0.0834 , -0.0023]	0.90276
Extended Chi2	[-0.07535 , -0.0054]	0.90276
FFD	[-0.03265 , 0.0183]	0.90276
FUSINTER	[-0.1663 , -0.0403]	0.90276
HDD	[-0.02635 , 0.0119]	0.90276
HellingerBD	[-0.1306 , -0.0175]	0.90276
Heter-Disc	[0.031 , 0.20565]	0.90276
ID3	[0.01945 , 0.07485]	0.90276
IDD	[-0.0114 , 0.10145]	0.90276
Khiops	[-0.1444 , -0.0254]	0.90276
MDLP	[-0.17195 , -0.0377]	0.90276
Modified Chi2	[-0.0968 , -0.00865]	0.90276
MODL	[-0.0941 , -0.02805]	0.90276
MVD	[-0.0247 , 0.0653]	0.90276
PKID	[-0.0123 , 0.0122]	0.90276
UCPD	[-0.1362 , -0.02725]	0.90276
Zeta	[-0.14985 , -0.0523]	0.90276

Table 86: Confidence intervals for algorithm USD (α=0.90)

α=0.95	Confidence interval	Exact confidence
1R	[-0.0476 , 0.18035]	0.95024
Ameva	[-0.1741 , -0.05185]	0.95024
Bayesian	[0.0004 , 0.0392]	0.95024
CACC	[-0.154 , -0.0256]	0.95024
CADD	[0.10885 , 0.3446]	0.95024
CAIM	[-0.18935 , -0.0635]	0.95024
Chi2	[-0.14985 , -0.0156]	0.95024
ChiMerge	[-0.16915 , -0.0614]	0.95024
ClusterAnalysis	[-0.0011 , 0.06925]	0.95024
DIBD	[-0.13295 , 0.01105]	0.95024
Distance	[-0.1801 , -0.03215]	0.95024
EqualFrequency	[-0.10855 , -0.01065]	0.95024
EqualWidth	[-0.0927 , 0.00325]	0.95024
Extended Chi2	[-0.08215 , -0.0005]	0.95024
FFD	[-0.04675 , 0.0215]	0.95024
FUSINTER	[-0.1795 , -0.0331]	0.95024
HDD	[-0.0313 , 0.01945]	0.95024
HellingerBD	[-0.144 , -0.01085]	0.95024
Heter-Disc	[0.0218 , 0.22335]	0.95024
ID3	[0.01495 , 0.0771]	0.95024
IDD	[-0.0143 , 0.12455]	0.95024
Khiops	[-0.15855 , -0.0186]	0.95024
MDLP	[-0.18785 , -0.02865]	0.95024
Modified Chi2	[-0.10995 , -0.00615]	0.95024
MODL	[-0.1074 , -0.0243]	0.95024
MVD	[-0.0382 , 0.0896]	0.95024
PKID	[-0.01725 , 0.0151]	0.95024
UCPD	[-0.14985 , -0.0184]	0.95024
Zeta	[-0.1605 , -0.04705]	0.95024

Table 87: Confidence intervals for algorithm USD (α=0.95)

30 Detailed results for Zeta

30.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	712.0	108.0	1.5466E-5	0.000048
Ameva	302.0	481.0	≥ 0.2	1
Bayesian	788.0	32.0	5.03E-9	0
CACC	405.5	414.5	≥ 0.2	1
CADD	817.0	3.0	9.094E-12	0
CAIM	186.0	601.0	≥ 0.2	1
Chi2	423.5	396.5	≥ 0.2	1
ChiMerge	260.0	560.0	≥ 0.2	1
ClusterAnalysis	757.0	63.0	2.536E-7	0.000003
DIBD	576.0	244.0	0.02498	0.025223
Distance	361.0	459.0	≥ 0.2	1
EqualFrequency	565.5	214.5	0.013427999999999999	0.013879
EqualWidth	642.0	138.0	2.496E-4	0.000426
Extended Chi2	579.0	241.0	0.02236	0.022709
FFD	687.0	93.0	8.892E-6	0.000033
FUSINTER	327.0	453.0	≥ 0.2	1
HDD	598.5	221.5	0.03014	0.030152
HellingerBD	506.5	273.5	0.10603	0.101926
Heter-Disc	773.0	47.0	3.948E-8	0.000001
ID3	751.5	68.5	1.7874999999999998E-6	0.000011
IDD	790.0	30.0	3.702E-9	0
Khiops	487.0	293.0	0.18012	0.173636
MDLP	321.5	498.5	≥ 0.2	1
Modified Chi2	490.0	290.0	0.16676	0.160773
MODL	504.5	315.5	≥ 0.2	0.420891
MVD	673.0	147.0	2.332E-4	0.000389
PKID	702.0	78.0	2.3E-6	0.000013
UCPD	499.0	321.0	≥ 0.2	0.228978
USD	708.5	111.5	7.597999999999999E-5	0.000168

Table 88: Results obtained by the Wilcoxon test for algorithm Zeta

30.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[0.07955 , 0.25175]	0.90276
Ameva	[-0.02855 , 0.004]	0.90276
Bayesian	[0.0961 , 0.2001]	0.90276
CACC	[-0.0171 , 0.0157]	0.90276
CADD	[0.26005 , 0.4143]	0.90276
CAIM	[-0.02525 , -0.0041]	0.90276
Chi2	[-0.0144 , 0.02895]	0.90276
ChiMerge	[-0.02675 , -0.002]	0.90276
ClusterAnalysis	[0.0996 , 0.1919]	0.90276
DIBD	[0.0107 , 0.06335]	0.90276
Distance	[-0.02505 , 0.0073]	0.90276
EqualFrequency	[0.00985 , 0.05565]	0.90276
EqualWidth	[0.028 , 0.0824]	0.90276
Extended Chi2	[0.0076 , 0.0867]	0.90276
FFD	[0.0561 , 0.1294]	0.90276
FUSINTER	[-0.0236 , 0.00865]	0.90276
HDD	[0.0286 , 0.1314]	0.90276
HellingerBD	[-0.0016 , 0.04085]	0.90276
Heter-Disc	[0.15715 , 0.30155]	0.90276
ID3	[0.1165 , 0.2242]	0.90276
IDD	[0.11175 , 0.23705]	0.90276
Khiops	[-0.00425 , 0.0371]	0.90276
MDLP	[-0.0305 , 0.00385]	0.90276
Modified Chi2	[-0.0042 , 0.05]	0.90276
MODL	[-0.0043 , 0.0523]	0.90276
MVD	[0.0562 , 0.1915]	0.90276
PKID	[0.06815 , 0.1393]	0.90276
UCPD	[-0.0061 , 0.03455]	0.90276
USD	[0.0523 , 0.14985]	0.90276

Table 89: Confidence intervals for algorithm Zeta (α=0.90)

α=0.95	Confidence interval	Exact confidence
1R	[0.0671 , 0.2651]	0.95024
Ameva	[-0.03075 , 0.0067]	0.95024
Bayesian	[0.0883 , 0.2081]	0.95024
CACC	[-0.0204 , 0.01925]	0.95024
CADD	[0.2458 , 0.4295]	0.95024
CAIM	[-0.02665 , -0.00325]	0.95024
Chi2	[-0.0168 , 0.0327]	0.95024
ChiMerge	[-0.0296 , -0.0003]	0.95024
ClusterAnalysis	[0.0927 , 0.2027]	0.95024
DIBD	[0.0045 , 0.071]	0.95024
Distance	[-0.02755 , 0.00925]	0.95024
EqualFrequency	[0.00575 , 0.06075]	0.95024
EqualWidth	[0.0236 , 0.08905]	0.95024
Extended Chi2	[0.00395 , 0.0924]	0.95024
FFD	[0.04905 , 0.139]	0.95024
FUSINTER	[-0.02555 , 0.01175]	0.95024
HDD	[0.01985 , 0.13985]	0.95024
HellingerBD	[-0.00505 , 0.04565]	0.95024
Heter-Disc	[0.14455 , 0.32445]	0.95024
ID3	[0.10835 , 0.23515]	0.95024
IDD	[0.10005 , 0.2461]	0.95024
Khiops	[-0.0093 , 0.0397]	0.95024
MDLP	[-0.03375 , 0.01035]	0.95024
Modified Chi2	[-0.00895 , 0.05415]	0.95024
MODL	[-0.007 , 0.0656]	0.95024
MVD	[0.04585 , 0.20335]	0.95024
PKID	[0.0621 , 0.1443]	0.95024
UCPD	[-0.0102 , 0.0391]	0.95024
USD	[0.04705 , 0.1605]	0.95024

Table 90: Confidence intervals for algorithm Zeta (α=0.95)