

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	349.0	434.0	≥ 0.2	1
Bayesian	62.5	726.5	≥ 0.2	1
CACC	354.0	429.0	≥ 0.2	1
CADD	696.0	124.0	6.688E-4	0.000997
CAIM	347.0	473.0	≥ 0.2	1
Chi2	292.0	528.0	≥ 0.2	1
ChiMerge	323.0	497.0	≥ 0.2	1
ClusterAnalysis	112.0	708.0	≥ 0.2	1
DIBD	601.5	218.5	0.02684	0.026995
Distance	518.0	262.0	0.075	0.072938
EqualFrequency	234.5	585.5	≥ 0.2	1
EqualWidth	108.0	677.0	≥ 0.2	1
Extended Chi2	415.0	405.0	≥ 0.2	0.941068
FFD	55.5	733.5	≥ 0.2	1
FUSINTER	242.5	577.5	≥ 0.2	1
HDD	69.0	751.0	≥ 0.2	1
HellingerBD	349.0	471.0	≥ 0.2	1
Heter-Disc	741.0	79.0	1.936E-5	0.000064
ID3	22.5	766.5	≥ 0.2	1
IDD	60.0	731.0	≥ 0.2	1
Khiops	165.0	655.0	≥ 0.2	1
MDLP	528.0	292.0	0.11496	0.111206
Modified Chi2	103.5	676.5	≥ 0.2	1
MODL	156.5	628.5	≥ 0.2	1
MVD	483.0	300.0	≥ 0.2	0.432754
PKID	29.0	758.0	≥ 0.2	1
UCPD	373.5	446.5	≥ 0.2	1
USD	28.0	792.0	≥ 0.2	1
Zeta	505.5	314.5	≥ 0.2	0.41257

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

1.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
Ameva	[-0.09835 , 0.0307]	0.90276
Bayesian	[-0.12905 , -0.02]	0.90276
CACC	[-0.10595 , 0.0393]	0.90276
CADD	[0.1909 , 0.4713]	0.90276
CAIM	[-0.09995 , 0.02015]	0.90276
Chi2	[-0.30415 , 0.00295]	0.90276
ChiMerge	[-0.1115 , 0.00775]	0.90276
ClusterAnalysis	[-0.30055 , -0.04185]	0.90276
DIBD	[0.03645 , 0.22735]	0.90276
Distance	[0.0044 , 0.21965]	0.90276
EqualFrequency	[-0.2287 , -0.0108]	0.90276
EqualWidth	[-0.2639 , -0.02345]	0.90276
Extended Chi2	[-0.1254 , 0.1469]	0.90276
FFD	[-0.3356 , -0.05275]	0.90276
FUSINTER	[-0.2466 , -0.0039]	0.90276
HDD	[-0.38595 , -0.0469]	0.90276
HellingerBD	[-0.1341 , 0.00395]	0.90276
Heter-Disc	[0.21145 , 0.4964]	0.90276
ID3	[-0.3965 , -0.05745]	0.90276
IDD	[-0.0758 , -0.0128]	0.90276
Khiops	[-0.27495 , -0.0237]	0.90276
MDLP	[-0.0039 , 0.1717]	0.90276
Modified Chi2	[-0.36395 , -0.05235]	0.90276
MODL	[-0.1548 , -0.0179]	0.90276
MVD	[-0.0088 , 0.2758]	0.90276
PKID	[-0.36095 , -0.0502]	0.90276
UCPD	[-0.11795 , 0.03605]	0.90276
USD	[-0.3172 , -0.05685]	0.90276
Zeta	[-0.0177 , 0.13525]	0.90276

Table 2: Confidence intervals for algorithm 1R ($\alpha=0.90$)

$\alpha=0.95$	Confidence interval	Exact confidence
Ameva	[-0.1093 , 0.0556]	0.95024
Bayesian	[-0.1781 , -0.01595]	0.95024
CACC	[-0.12255 , 0.04595]	0.95024
CADD	[0.165 , 0.4866]	0.95024
CAIM	[-0.1191 , 0.0418]	0.95024
Chi2	[-0.3298 , 0.0128]	0.95024
ChiMerge	[-0.1369 , 0.0176]	0.95024
ClusterAnalysis	[-0.34915 , -0.02495]	0.95024
DIBD	[0.0183 , 0.2448]	0.95024
Distance	[-0.0065 , 0.24815]	0.95024
EqualFrequency	[-0.25095 , -0.0038]	0.95024
EqualWidth	[-0.27465 , -0.0212]	0.95024
Extended Chi2	[-0.15545 , 0.1771]	0.95024
FFD	[-0.41275 , -0.0469]	0.95024
FUSINTER	[-0.26375 , -0.00085]	0.95024
HDD	[-0.3985 , -0.0245]	0.95024
HellingerBD	[-0.14385 , 0.007]	0.95024
Heter-Disc	[0.18235 , 0.5016]	0.95024
ID3	[-0.42475 , -0.0502]	0.95024
IDD	[-0.1116 , -0.0109]	0.95024
Khiops	[-0.3099 , -0.0217]	0.95024
MDLP	[-0.022 , 0.1824]	0.95024
Modified Chi2	[-0.3747 , -0.0444]	0.95024
MODL	[-0.1919 , -0.01585]	0.95024
MVD	[-0.0289 , 0.32655]	0.95024
PKID	[-0.4157 , -0.03945]	0.95024
UCPD	[-0.1431 , 0.04615]	0.95024
USD	[-0.3285 , -0.0487]	0.95024
Zeta	[-0.0362 , 0.19645]	0.95024

Table 3: Confidence intervals for algorithm 1R ($\alpha=0.95$)

2 Detailed results for Ameva

2.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	434.0	349.0	≥ 0.2	0.963901
Bayesian	239.0	581.0	≥ 0.2	1
CACC	373.0	414.0	≥ 0.2	1
CADD	696.0	84.0	4.022E-6	0.000019
CAIM	439.5	345.5	≥ 0.2	1
Chi2	254.0	566.0	≥ 0.2	1
ChiMerge	455.0	330.0	≥ 0.2	1
ClusterAnalysis	140.5	679.5	≥ 0.2	1
DIBD	666.5	153.5	0.0012009999999999998	0.001609
Distance	656.0	124.0	9.754E-5	0.0002
EqualFrequency	132.5	652.5	≥ 0.2	1
EqualWidth	127.5	657.5	≥ 0.2	1
Extended Chi2	436.0	384.0	≥ 0.2	0.721695
FFD	10.5	809.5	≥ 0.2	1
FUSINTER	138.5	644.5	≥ 0.2	1
HDD	40.5	779.5	≥ 0.2	1
HellingerBD	274.0	546.0	≥ 0.2	1
Heter-Disc	780.0	0.0	3.638E-12	0
ID3	10.5	809.5	≥ 0.2	1
IDD	231.5	588.5	≥ 0.2	1
Khiops	81.5	738.5	≥ 0.2	1
MDLP	591.0	229.0	0.014108	0.014704
Modified Chi2	53.0	727.0	≥ 0.2	1
MODL	173.0	647.0	≥ 0.2	1
MVD	518.0	302.0	≥ 0.2	0.620683
PKID	10.5	809.5	≥ 0.2	1
UCPD	335.0	450.0	≥ 0.2	1
USD	18.5	801.5	≥ 0.2	1
Zeta	625.5	157.5	0.002757	0.003284

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

2.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
1R	[-0.0307 , 0.09835]	0.90276
Bayesian	[-0.1881 , -0.0068]	0.90276
CACC	[-0.00875 , 0.0159]	0.90276
CADD	[0.21865 , 0.47235]	0.90276
CAIM	[-0.0016 , 0.00865]	0.90276
Chi2	[-0.2573 , -0.0103]	0.90276
ChiMerge	[-0.00295 , 0.0061]	0.90276
ClusterAnalysis	[-0.2449 , -0.04215]	0.90276
DIBD	[0.0884 , 0.2185]	0.90276
Distance	[0.04615 , 0.19]	0.90276
EqualFrequency	[-0.187 , -0.0248]	0.90276
EqualWidth	[-0.22775 , -0.02775]	0.90276
Extended Chi2	[-0.0856 , 0.1077]	0.90276
FFD	[-0.3189 , -0.04645]	0.90276
FUSINTER	[-0.16955 , -0.0226]	0.90276
HDD	[-0.3086 , -0.0384]	0.90276
HellingerBD	[-0.15095 , -0.0006]	0.90276
Heter-Disc	[0.25475 , 0.4555]	0.90276
ID3	[-0.35065 , -0.07385]	0.90276
IDD	[-0.16465 , -0.004]	0.90276
Khiops	[-0.2531 , -0.03315]	0.90276
MDLP	[0.0116 , 0.14955]	0.90276
Modified Chi2	[-0.29725 , -0.0436]	0.90276
MODL	[-0.1694 , -0.0106]	0.90276
MVD	[-0.0008 , 0.132]	0.90276
PKID	[-0.3197 , -0.0701]	0.90276
UCPD	[-0.04105 , 0.01365]	0.90276
USD	[-0.24435 , -0.0545]	0.90276
Zeta	[0.00965 , 0.15405]	0.90276

Table 5: Confidence intervals for algorithm Ameva ($\alpha=0.90$)

$\alpha=0.95$	Confidence interval	Exact confidence
1R	[-0.0556 , 0.1093]	0.95024
Bayesian	[-0.2058 , -0.00175]	0.95024
CACC	[-0.0115 , 0.01875]	0.95024
CADD	[0.1982 , 0.48105]	0.95024
CAIM	[-0.00365 , 0.01065]	0.95024
Chi2	[-0.28165 , -0.00255]	0.95024
ChiMerge	[-0.00905 , 0.00765]	0.95024
ClusterAnalysis	[-0.2867 , -0.0252]	0.95024
DIBD	[0.0803 , 0.23195]	0.95024
Distance	[0.03815 , 0.20465]	0.95024
EqualFrequency	[-0.2354 , -0.01615]	0.95024
EqualWidth	[-0.24515 , -0.0239]	0.95024
Extended Chi2	[-0.11155 , 0.1459]	0.95024
FFD	[-0.32585 , -0.03985]	0.95024
FUSINTER	[-0.1795 , -0.01575]	0.95024
HDD	[-0.32955 , -0.034]	0.95024
HellingerBD	[-0.1615 , 0.0004]	0.95024
Heter-Disc	[0.23325 , 0.4736]	0.95024
ID3	[-0.38125 , -0.05975]	0.95024
IDD	[-0.1751 , -0.00095]	0.95024
Khiops	[-0.26175 , -0.02785]	0.95024
MDLP	[0.00545 , 0.17555]	0.95024
Modified Chi2	[-0.3258 , -0.0377]	0.95024
MODL	[-0.17595 , -0.0086]	0.95024
MVD	[-0.00575 , 0.15885]	0.95024
PKID	[-0.3444 , -0.05975]	0.95024
UCPD	[-0.05375 , 0.02265]	0.95024
USD	[-0.2712 , -0.0433]	0.95024
Zeta	[0.005 , 0.1708]	0.95024

Table 6: Confidence intervals for algorithm Ameva ($\alpha=0.95$)

3 Detailed results for Bayesian

3.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	726.5	62.5	1.1259E-4	0.000267
Ameva	581.0	239.0	0.1433	0.137637
CACC	613.0	207.0	0.04778	0.046448
CADD	801.5	18.5	2.0374E-9	0
CAIM	546.5	238.5	≥ 0.2	0.207239
Chi2	523.0	297.0	0.13156	0.127113
ChiMerge	540.5	279.5	≥ 0.2	0.751786
ClusterAnalysis	297.5	495.5	≥ 0.2	1
DIBD	716.0	67.0	3.034E-6	0.000017
Distance	694.0	86.0	4.818E-6	0.000021
EqualFrequency	404.0	383.0	≥ 0.2	1
EqualWidth	353.5	435.5	≥ 0.2	1
Extended Chi2	558.5	221.5	0.017857	0.018151
FFD	205.0	588.0	≥ 0.2	1
FUSINTER	436.0	384.0	≥ 0.2	1
HDD	195.0	600.0	≥ 0.2	1
HellingerBD	530.0	290.0	≥ 0.2	0.494348
Heter-Disc	818.5	1.5	1.8186E-11	0
ID3	76.5	720.5	≥ 0.2	1
IDD	499.0	321.0	≥ 0.2	1
Khiops	356.0	464.0	≥ 0.2	1
MDLP	659.0	121.0	7.892E-5	0.000169
Modified Chi2	289.5	530.5	≥ 0.2	1
MODL	448.5	338.5	≥ 0.2	1
MVD	641.0	142.0	0.0011258	0.001534
PKID	158.5	636.5	≥ 0.2	1
UCPD	560.5	259.5	0.10968	0.105245
USD	142.5	654.5	≥ 0.2	1
Zeta	689.5	130.5	2.896E-4	0.000487

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

3.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
1R	[0.02 , 0.12905]	0.90276
Ameva	[0.0068 , 0.1881]	0.90276
CACC	[0.00465 , 0.17185]	0.90276
CADD	[0.40135 , 0.5877]	0.90276
CAIM	[0.0039 , 0.1561]	0.90276
Chi2	[-0.0034 , 0.05985]	0.90276
ChiMerge	[0 , 0.07995]	0.90276
ClusterAnalysis	[-0.04255 , 0]	0.90276
DIBD	[0.1609 , 0.36015]	0.90276
Distance	[0.08625 , 0.3813]	0.90276
EqualFrequency	[-0.03195 , 0.0162]	0.90276
EqualWidth	[-0.0259 , 0.00265]	0.90276
Extended Chi2	[0.02555 , 0.27125]	0.90276
FFD	[-0.04925 , -0.00045]	0.90276
FUSINTER	[-0.02055 , 0.02195]	0.90276
HDD	[-0.0411 , -0.0002]	0.90276
HellingerBD	[0 , 0.05555]	0.90276
Heter-Disc	[0.42115 , 0.59865]	0.90276
ID3	[-0.0496 , -0.0036]	0.90276
IDD	[0 , 0.00785]	0.90276
Khiops	[-0.0221 , 0.0006]	0.90276
MDLP	[0.0533 , 0.28045]	0.90276
Modified Chi2	[-0.04585 , 0.00005]	0.90276
MODL	[-0.0134 , 0.0063]	0.90276
MVD	[0.0662 , 0.4264]	0.90276
PKID	[-0.04945 , -0.00185]	0.90276
UCPD	[0.00345 , 0.1021]	0.90276
USD	[-0.04695 , -0.0018]	0.90276
Zeta	[0.04305 , 0.36165]	0.90276

Table 8: Confidence intervals for algorithm Bayesian ($\alpha=0.90$)

$\alpha=0.95$	Confidence interval	Exact confidence
1R	[0.01595 , 0.1781]	0.95024
Ameva	[0.00175 , 0.2058]	0.95024
CACC	[0.0033 , 0.19615]	0.95024
CADD	[0.3463 , 0.6187]	0.95024
CAIM	[0.0009 , 0.1977]	0.95024
Chi2	[-0.01565 , 0.0649]	0.95024
ChiMerge	[-0.0022 , 0.08745]	0.95024
ClusterAnalysis	[-0.04695 , 0]	0.95024
DIBD	[0.1493 , 0.3863]	0.95024
Distance	[0.0732 , 0.40405]	0.95024
EqualFrequency	[-0.03815 , 0.02225]	0.95024
EqualWidth	[-0.0412 , 0.00855]	0.95024
Extended Chi2	[0.01405 , 0.2938]	0.95024
FFD	[-0.05765 , -0.0002]	0.95024
FUSINTER	[-0.02535 , 0.0239]	0.95024
HDD	[-0.0458 , -0.00015]	0.95024
HellingerBD	[-0.0032 , 0.06865]	0.95024
Heter-Disc	[0.3869 , 0.6234]	0.95024
ID3	[-0.07095 , -0.0032]	0.95024
IDD	[-0.00015 , 0.0126]	0.95024
Khiops	[-0.02605 , 0.00215]	0.95024
MDLP	[0.04765 , 0.3414]	0.95024
Modified Chi2	[-0.0643 , 0.0005]	0.95024
MODL	[-0.0145 , 0.02295]	0.95024
MVD	[0.05235 , 0.43835]	0.95024
PKID	[-0.0686 , -0.00135]	0.95024
UCPD	[0.0006 , 0.12095]	0.95024
USD	[-0.0604 , -0.00145]	0.95024
Zeta	[0.03655 , 0.3783]	0.95024

Table 9: Confidence intervals for algorithm Bayesian ($\alpha=0.95$)

4 Detailed results for CACC

4.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	429.0	354.0	≥ 0.2	1
Ameva	414.0	373.0	≥ 0.2	1
Bayesian	207.0	613.0	≥ 0.2	1
CADD	725.0	95.0	5.372E-6	0.000022
CAIM	430.5	389.5	≥ 0.2	1
Chi2	282.0	538.0	≥ 0.2	1
ChiMerge	387.5	432.5	≥ 0.2	1
ClusterAnalysis	150.0	637.0	≥ 0.2	1
DIBD	661.5	158.5	0.0015955000000000001	0.002058
Distance	638.0	182.0	0.0016824	0.002131
EqualFrequency	228.5	591.5	≥ 0.2	1
EqualWidth	175.5	644.5	≥ 0.2	1
Extended Chi2	433.0	387.0	≥ 0.2	0.751697
FFD	40.0	747.0	≥ 0.2	1
FUSINTER	135.0	685.0	≥ 0.2	1
HDD	49.0	738.0	≥ 0.2	1
HellingerBD	282.5	502.5	≥ 0.2	1
Heter-Disc	780.0	3.0	7.276E-11	0
ID3	14.0	773.0	≥ 0.2	1
IDD	268.5	551.5	≥ 0.2	1
Khiops	81.5	738.5	≥ 0.2	1
MDLP	537.0	283.0	0.0892	0.086572
Modified Chi2	103.0	717.0	≥ 0.2	1
MODL	182.5	602.5	≥ 0.2	1
MVD	538.5	281.5	≥ 0.2	0.777873
PKID	33.0	754.0	≥ 0.2	1
UCPD	404.0	416.0	≥ 0.2	1
USD	39.0	748.0	≥ 0.2	1
Zeta	538.0	245.0	0.11046	0.106477

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

4.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
1R	[-0.0393 , 0.10595]	0.90276
Ameva	[-0.0159 , 0.00875]	0.90276
Bayesian	[-0.17185 , -0.00465]	0.90276
CADD	[0.18415 , 0.4799]	0.90276
CAIM	[-0.05315 , 0.01305]	0.90276
Chi2	[-0.2661 , -0.00285]	0.90276
ChiMerge	[-0.10235 , 0.009]	0.90276
ClusterAnalysis	[-0.30555 , -0.02225]	0.90276
DIBD	[0.0852 , 0.2131]	0.90276
Distance	[0.023 , 0.1651]	0.90276
EqualFrequency	[-0.2825 , -0.0092]	0.90276
EqualWidth	[-0.26685 , -0.0216]	0.90276
Extended Chi2	[-0.1634 , 0.10605]	0.90276
FFD	[-0.3193 , -0.04185]	0.90276
FUSINTER	[-0.16245 , -0.02685]	0.90276
HDD	[-0.3058 , -0.0361]	0.90276
HellingerBD	[-0.17075 , 0.0005]	0.90276
Heter-Disc	[0.21525 , 0.4685]	0.90276
ID3	[-0.34465 , -0.0518]	0.90276
IDD	[-0.11825 , -0.00025]	0.90276
Khiops	[-0.2879 , -0.0311]	0.90276
MDLP	[0.0011 , 0.1124]	0.90276
Modified Chi2	[-0.3055 , -0.0439]	0.90276
MODL	[-0.1381 , -0.01525]	0.90276
MVD	[0 , 0.17875]	0.90276
PKID	[-0.32775 , -0.0515]	0.90276
UCPD	[-0.03445 , 0.0062]	0.90276
USD	[-0.29405 , -0.03875]	0.90276
Zeta	[0.0026 , 0.11325]	0.90276

Table 11: Confidence intervals for algorithm CACC ($\alpha=0.90$)

$\alpha=0.95$	Confidence interval	Exact confidence
1R	[-0.04595 , 0.12255]	0.95024
Ameva	[-0.01875 , 0.0115]	0.95024
Bayesian	[-0.19615 , -0.0033]	0.95024
CADD	[0.1658 , 0.49635]	0.95024
CAIM	[-0.0837 , 0.0159]	0.95024
Chi2	[-0.27875 , 0.0051]	0.95024
ChiMerge	[-0.12215 , 0.01155]	0.95024
ClusterAnalysis	[-0.32765 , -0.0173]	0.95024
DIBD	[0.0687 , 0.2259]	0.95024
Distance	[0.0176 , 0.18015]	0.95024
EqualFrequency	[-0.29585 , -0.00235]	0.95024
EqualWidth	[-0.29085 , -0.0133]	0.95024
Extended Chi2	[-0.1868 , 0.1382]	0.95024
FFD	[-0.33865 , -0.0283]	0.95024
FUSINTER	[-0.17625 , -0.01985]	0.95024
HDD	[-0.31865 , -0.02725]	0.95024
HellingerBD	[-0.2089 , 0.00145]	0.95024
Heter-Disc	[0.20315 , 0.48915]	0.95024
ID3	[-0.35205 , -0.0499]	0.95024
IDD	[-0.21535 , 0]	0.95024
Khiops	[-0.28945 , -0.02765]	0.95024
MDLP	[-0.00435 , 0.13435]	0.95024
Modified Chi2	[-0.3323 , -0.0333]	0.95024
MODL	[-0.14805 , -0.00795]	0.95024
MVD	[-0.00095 , 0.19735]	0.95024
PKID	[-0.3437 , -0.04155]	0.95024
UCPD	[-0.06795 , 0.00965]	0.95024
USD	[-0.30165 , -0.02725]	0.95024
Zeta	[0.00015 , 0.1536]	0.95024

Table 12: Confidence intervals for algorithm CACC ($\alpha=0.95$)

5 Detailed results for CADD

5.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	124.0	696.0	≥ 0.2	1
Ameva	84.0	696.0	≥ 0.2	1
Bayesian	18.5	801.5	≥ 0.2	1
CACC	95.0	725.0	≥ 0.2	1
CAIM	48.0	732.0	≥ 0.2	1
Chi2	43.0	777.0	≥ 0.2	1
ChiMerge	37.0	743.0	≥ 0.2	1
ClusterAnalysis	1.5	818.5	≥ 0.2	1
DIBD	177.0	643.0	≥ 0.2	1
Distance	157.0	623.0	≥ 0.2	1
EqualFrequency	25.5	794.5	≥ 0.2	1
EqualWidth	15.0	765.0	≥ 0.2	1
Extended Chi2	123.5	696.5	≥ 0.2	1
FFD	0.0	780.0	≥ 0.2	1
FUSINTER	36.0	744.0	≥ 0.2	1
HDD	14.0	766.0	≥ 0.2	1
HellingerBD	54.0	766.0	≥ 0.2	1
Heter-Disc	438.0	353.0	≥ 0.2	1
ID3	0.0	780.0	≥ 0.2	1
IDD	52.5	730.5	≥ 0.2	1
Khiops	2.5	777.5	≥ 0.2	1
MDLP	127.0	693.0	≥ 0.2	1
Modified Chi2	10.0	770.0	≥ 0.2	1
MODL	20.0	760.0	≥ 0.2	1
MVD	172.0	613.0	≥ 0.2	1
PKID	1.5	818.5	≥ 0.2	1
UCPD	74.0	706.0	≥ 0.2	1
USD	3.0	777.0	≥ 0.2	1
Zeta	121.0	699.0	≥ 0.2	1

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

5.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
1R	[-0.4713 , -0.1909]	0.90276
Ameva	[-0.47235 , -0.21865]	0.90276
Bayesian	[-0.5877 , -0.40135]	0.90276
CACC	[-0.4799 , -0.18415]	0.90276
CAIM	[-0.487 , -0.23315]	0.90276
Chi2	[-0.66325 , -0.4186]	0.90276
ChiMerge	[-0.49985 , -0.27595]	0.90276
ClusterAnalysis	[-0.6923 , -0.4725]	0.90276
DIBD	[-0.33675 , -0.07865]	0.90276
Distance	[-0.3547 , -0.0793]	0.90276
EqualFrequency	[-0.6312 , -0.4421]	0.90276
EqualWidth	[-0.662 , -0.44765]	0.90276
Extended Chi2	[-0.4938 , -0.2256]	0.90276
FFD	[-0.72965 , -0.493]	0.90276
FUSINTER	[-0.56645 , -0.3651]	0.90276
HDD	[-0.72225 , -0.4891]	0.90276
HellingerBD	[-0.54765 , -0.35535]	0.90276
Heter-Disc	[-0.03465 , 0.09635]	0.90276
ID3	[-0.73155 , -0.49745]	0.90276
IDD	[-0.5067 , -0.3238]	0.90276
Khiops	[-0.6651 , -0.46665]	0.90276
MDLP	[-0.415 , -0.1207]	0.90276
Modified Chi2	[-0.72075 , -0.4909]	0.90276
MODL	[-0.58665 , -0.37335]	0.90276
MVD	[-0.36995 , -0.08725]	0.90276
PKID	[-0.731 , -0.4957]	0.90276
UCPD	[-0.49115 , -0.25385]	0.90276
USD	[-0.67405 , -0.4879]	0.90276
Zeta	[-0.39805 , -0.107]	0.90276

Table 14: Confidence intervals for algorithm CADD ($\alpha=0.90$)

$\alpha=0.95$	Confidence interval	Exact confidence
1R	[-0.4866 , -0.165]	0.95024
Ameva	[-0.48105 , -0.1982]	0.95024
Bayesian	[-0.6187 , -0.3463]	0.95024
CACC	[-0.49635 , -0.1658]	0.95024
CAIM	[-0.4991 , -0.2151]	0.95024
Chi2	[-0.6932 , -0.3917]	0.95024
ChiMerge	[-0.51635 , -0.25825]	0.95024
ClusterAnalysis	[-0.7213 , -0.46285]	0.95024
DIBD	[-0.3587 , -0.06385]	0.95024
Distance	[-0.4001 , -0.0622]	0.95024
EqualFrequency	[-0.6629 , -0.4205]	0.95024
EqualWidth	[-0.70075 , -0.42985]	0.95024
Extended Chi2	[-0.50805 , -0.19025]	0.95024
FFD	[-0.7573 , -0.48295]	0.95024
FUSINTER	[-0.5882 , -0.32665]	0.95024
HDD	[-0.75255 , -0.4721]	0.95024
HellingerBD	[-0.596 , -0.3151]	0.95024
Heter-Disc	[-0.0665 , 0.1221]	0.95024
ID3	[-0.76085 , -0.49315]	0.95024
IDD	[-0.5322 , -0.26605]	0.95024
Khiops	[-0.69265 , -0.43815]	0.95024
MDLP	[-0.43525 , -0.105]	0.95024
Modified Chi2	[-0.7433 , -0.4788]	0.95024
MODL	[-0.59805 , -0.33505]	0.95024
MVD	[-0.3987 , -0.05785]	0.95024
PKID	[-0.75985 , -0.4864]	0.95024
UCPD	[-0.5101 , -0.2229]	0.95024
USD	[-0.7116 , -0.4721]	0.95024
Zeta	[-0.43205 , -0.0913]	0.95024

Table 15: Confidence intervals for algorithm CADD ($\alpha=0.95$)

6 Detailed results for CAIM

6.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	473.0	347.0	≥ 0.2	1
Ameva	345.5	439.5	≥ 0.2	1
Bayesian	238.5	546.5	≥ 0.2	1
CACC	389.5	430.5	≥ 0.2	1
CADD	732.0	48.0	8.94E-8	0.000002
Chi2	287.0	533.0	≥ 0.2	1
ChiMerge	263.0	524.0	≥ 0.2	1
ClusterAnalysis	139.0	681.0	≥ 0.2	1
DIBD	714.5	105.5	4.809E-5	0.000118
Distance	693.0	87.0	5.268E-6	0.000023
EqualFrequency	115.0	672.0	≥ 0.2	1
EqualWidth	99.0	688.0	≥ 0.2	1
Extended Chi2	455.0	325.0	≥ 0.2	0.360689
FFD	18.0	802.0	≥ 0.2	1
FUSINTER	203.5	581.5	≥ 0.2	1
HDD	39.0	781.0	≥ 0.2	1
HellingerBD	256.5	528.5	≥ 0.2	1
Heter-Disc	780.0	0.0	3.638E-12	0
ID3	18.0	802.0	≥ 0.2	1
IDD	244.0	543.0	≥ 0.2	1
Khiops	108.0	679.0	≥ 0.2	1
MDLP	599.0	181.0	0.002894	0.00346
Modified Chi2	101.5	718.5	≥ 0.2	1
MODL	241.5	578.5	≥ 0.2	1
MVD	540.0	280.0	≥ 0.2	0.400619
PKID	18.0	802.0	≥ 0.2	1
UCPD	401.5	383.5	≥ 0.2	1
USD	22.5	766.5	≥ 0.2	1
Zeta	720.5	64.5	9.193E-6	0.000039

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

6.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
1R	[-0.02015 , 0.09995]	0.90276
Ameva	[-0.00865 , 0.0016]	0.90276
Bayesian	[-0.1561 , -0.0039]	0.90276
CACC	[-0.01305 , 0.05315]	0.90276
CADD	[0.23315 , 0.487]	0.90276
Chi2	[-0.22825 , 0.00055]	0.90276
ChiMerge	[-0.0245 , 0]	0.90276
ClusterAnalysis	[-0.2653 , -0.0223]	0.90276
DIBD	[0.0925 , 0.1975]	0.90276
Distance	[0.061 , 0.1868]	0.90276
EqualFrequency	[-0.1714 , -0.0303]	0.90276
EqualWidth	[-0.20105 , -0.02315]	0.90276
Extended Chi2	[-0.0298 , 0.0874]	0.90276
FFD	[-0.2612 , -0.05405]	0.90276
FUSINTER	[-0.16075 , -0.0089]	0.90276
HDD	[-0.2888 , -0.03035]	0.90276
HellingerBD	[-0.1468 , -0.0004]	0.90276
Heter-Disc	[0.2769 , 0.48505]	0.90276
ID3	[-0.3152 , -0.05855]	0.90276
IDD	[-0.13935 , -0.0009]	0.90276
Khiops	[-0.2172 , -0.0283]	0.90276
MDLP	[0.01725 , 0.15065]	0.90276
Modified Chi2	[-0.29295 , -0.0374]	0.90276
MODL	[-0.14055 , -0.0037]	0.90276
MVD	[0.0017 , 0.19665]	0.90276
PKID	[-0.29515 , -0.05815]	0.90276
UCPD	[-0.0327 , 0.0395]	0.90276
USD	[-0.2104 , -0.0469]	0.90276
Zeta	[0.01865 , 0.1263]	0.90276

Table 17: Confidence intervals for algorithm CAIM ($\alpha=0.90$)

$\alpha=0.95$	Confidence interval	Exact confidence
1R	[-0.0418 , 0.1191]	0.95024
Ameva	[-0.01065 , 0.00365]	0.95024
Bayesian	[-0.1977 , -0.0009]	0.95024
CACC	[-0.0159 , 0.0837]	0.95024
CADD	[0.2151 , 0.4991]	0.95024
Chi2	[-0.26525 , 0.0082]	0.95024
ChiMerge	[-0.0275 , 0]	0.95024
ClusterAnalysis	[-0.2803 , -0.0173]	0.95024
DIBD	[0.08395 , 0.2147]	0.95024
Distance	[0.05305 , 0.1998]	0.95024
EqualFrequency	[-0.18995 , -0.0224]	0.95024
EqualWidth	[-0.20955 , -0.0177]	0.95024
Extended Chi2	[-0.05595 , 0.1059]	0.95024
FFD	[-0.32675 , -0.03705]	0.95024
FUSINTER	[-0.1795 , -0.0064]	0.95024
HDD	[-0.32955 , -0.0179]	0.95024
HellingerBD	[-0.15635 , 0]	0.95024
Heter-Disc	[0.2482 , 0.50015]	0.95024
ID3	[-0.36105 , -0.0542]	0.95024
IDD	[-0.1568 , 0]	0.95024
Khiops	[-0.22995 , -0.0204]	0.95024
MDLP	[0.012 , 0.1713]	0.95024
Modified Chi2	[-0.3105 , -0.03265]	0.95024
MODL	[-0.18565 , -0.0008]	0.95024
MVD	[-0.0008 , 0.25625]	0.95024
PKID	[-0.3316 , -0.0542]	0.95024
UCPD	[-0.0433 , 0.0461]	0.95024
USD	[-0.2408 , -0.03565]	0.95024
Zeta	[0.0166 , 0.13065]	0.95024

Table 18: Confidence intervals for algorithm CAIM ($\alpha=0.95$)

7 Detailed results for Chi2

7.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	528.0	292.0	0.11496	0.111206
Ameva	566.0	254.0	0.0356	0.035417
Bayesian	297.0	523.0	≥ 0.2	1
CACC	538.0	282.0	0.08666	0.084131
CADD	777.0	43.0	2.362E-8	0.000001
CAIM	533.0	287.0	0.10004	0.096914
ChiMerge	479.0	341.0	≥ 0.2	0.350216
ClusterAnalysis	202.0	618.0	≥ 0.2	1
DIBD	727.0	93.0	4.528E-6	0.00002
Distance	683.0	137.0	1.232E-4	0.000237
EqualFrequency	280.0	540.0	≥ 0.2	1
EqualWidth	219.0	601.0	≥ 0.2	1
Extended Chi2	650.0	170.0	8.912E-4	0.001227
FFD	78.0	742.0	≥ 0.2	1
FUSINTER	385.0	435.0	≥ 0.2	1
HDD	86.0	734.0	≥ 0.2	1
HellingerBD	435.0	385.0	≥ 0.2	0.731784
Heter-Disc	797.0	23.0	1.1642E-9	0
ID3	0.0	820.0	≥ 0.2	1
IDD	349.0	471.0	≥ 0.2	1
Khiops	253.0	567.0	≥ 0.2	1
MDLP	645.0	175.0	0.0011672	0.001549
Modified Chi2	36.0	784.0	≥ 0.2	1
MODL	374.0	446.0	≥ 0.2	1
MVD	665.0	155.0	3.79E-4	0.000594
PKID	31.0	789.0	≥ 0.2	1
UCPD	545.0	275.0	0.07034	0.068562
USD	117.0	703.0	≥ 0.2	1
Zeta	629.0	191.0	0.002638	0.003174

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

7.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
1R	[-0.00295 , 0.30415]	0.90276
Ameva	[0.0103 , 0.2573]	0.90276
Bayesian	[-0.05985 , 0.0034]	0.90276
CACC	[0.00285 , 0.2661]	0.90276
CADD	[0.4186 , 0.66325]	0.90276
CAIM	[-0.00055 , 0.22825]	0.90276
ChiMerge	[-0.01665 , 0.17535]	0.90276
ClusterAnalysis	[-0.06435 , -0.02915]	0.90276
DIBD	[0.1959 , 0.3948]	0.90276
Distance	[0.17985 , 0.38615]	0.90276
EqualFrequency	[-0.057 , -0.00455]	0.90276
EqualWidth	[-0.06 , -0.0215]	0.90276
Extended Chi2	[0.0427 , 0.22555]	0.90276
FFD	[-0.0862 , -0.04065]	0.90276
FUSINTER	[-0.03715 , 0.04985]	0.90276
HDD	[-0.07555 , -0.0377]	0.90276
HellingerBD	[-0.03625 , 0.09585]	0.90276
Heter-Disc	[0.44655 , 0.67615]	0.90276
ID3	[-0.10245 , -0.05205]	0.90276
IDD	[-0.0467 , 0.0564]	0.90276
Khiops	[-0.0564 , -0.0151]	0.90276
MDLP	[0.11125 , 0.3391]	0.90276
Modified Chi2	[-0.07745 , -0.0333]	0.90276
MODL	[-0.04705 , 0.0537]	0.90276
MVD	[0.1035 , 0.39845]	0.90276
PKID	[-0.09595 , -0.0447]	0.90276
UCPD	[0.00545 , 0.18315]	0.90276
USD	[-0.07515 , -0.0355]	0.90276
Zeta	[0.1086 , 0.3493]	0.90276

Table 20: Confidence intervals for algorithm Chi2 ($\alpha=0.90$)

$\alpha=0.95$	Confidence interval	Exact confidence
1R	[-0.0128 , 0.3298]	0.95024
Ameva	[0.00255 , 0.28165]	0.95024
Bayesian	[-0.0649 , 0.01565]	0.95024
CACC	[-0.0051 , 0.27875]	0.95024
CADD	[0.3917 , 0.6932]	0.95024
CAIM	[-0.0082 , 0.26525]	0.95024
ChiMerge	[-0.0256 , 0.2011]	0.95024
ClusterAnalysis	[-0.0682 , -0.02345]	0.95024
DIBD	[0.1794 , 0.40985]	0.95024
Distance	[0.15155 , 0.40675]	0.95024
EqualFrequency	[-0.06315 , 0.01555]	0.95024
EqualWidth	[-0.06465 , -0.017]	0.95024
Extended Chi2	[0.0358 , 0.23945]	0.95024
FFD	[-0.09915 , -0.0389]	0.95024
FUSINTER	[-0.0403 , 0.07795]	0.95024
HDD	[-0.08115 , -0.03585]	0.95024
HellingerBD	[-0.0404 , 0.11345]	0.95024
Heter-Disc	[0.4294 , 0.71315]	0.95024
ID3	[-0.10575 , -0.0495]	0.95024
IDD	[-0.0507 , 0.10255]	0.95024
Khiops	[-0.0604 , -0.0086]	0.95024
MDLP	[0.082 , 0.35555]	0.95024
Modified Chi2	[-0.08685 , -0.0314]	0.95024
MODL	[-0.05215 , 0.0691]	0.95024
MVD	[0.077 , 0.41455]	0.95024
PKID	[-0.10165 , -0.04265]	0.95024
UCPD	[-0.0034 , 0.2038]	0.95024
USD	[-0.0847 , -0.0337]	0.95024
Zeta	[0.06935 , 0.36165]	0.95024

Table 21: Confidence intervals for algorithm Chi2 ($\alpha=0.95$)

8 Detailed results for ChiMerge

8.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	497.0	323.0	≥ 0.2	0.868975
Ameva	330.0	455.0	≥ 0.2	1
Bayesian	279.5	540.5	≥ 0.2	1
CACC	432.5	387.5	≥ 0.2	1
CADD	743.0	37.0	2.088E-8	0.000001
CAIM	524.0	263.0	≥ 0.2	0.74774
Chi2	341.0	479.0	≥ 0.2	1
ClusterAnalysis	148.5	640.5	≥ 0.2	1
DIBD	716.0	67.0	3.034E-6	0.000016
Distance	739.0	41.0	3.622E-8	0.000001
EqualFrequency	130.5	658.5	≥ 0.2	1
EqualWidth	134.0	686.0	≥ 0.2	1
Extended Chi2	523.0	297.0	0.13156	0.127113
FFD	22.5	766.5	≥ 0.2	1
FUSINTER	223.5	561.5	≥ 0.2	1
HDD	97.5	722.5	≥ 0.2	1
HellingerBD	290.0	497.0	≥ 0.2	1
Heter-Disc	780.0	0.0	3.638E-12	0
ID3	22.5	766.5	≥ 0.2	1
IDD	280.0	507.0	≥ 0.2	1
Khiops	125.0	695.0	≥ 0.2	1
MDLP	670.5	149.5	9.509E-4	0.001317
Modified Chi2	79.0	704.0	≥ 0.2	1
MODL	254.0	566.0	≥ 0.2	1
MVD	572.0	248.0	0.18664	0.17919
PKID	22.5	766.5	≥ 0.2	1
UCPD	444.5	375.5	≥ 0.2	1
USD	31.5	757.5	≥ 0.2	1
Zeta	674.0	109.0	1.2122E-4	0.000246

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

8.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
1R	[-0.00775 , 0.1115]	0.90276
Ameva	[-0.0061 , 0.00295]	0.90276
Bayesian	[-0.07995 , 0]	0.90276
CACC	[-0.009 , 0.10235]	0.90276
CADD	[0.27595 , 0.49985]	0.90276
CAIM	[0 , 0.0245]	0.90276
Chi2	[-0.17535 , 0.01665]	0.90276
ClusterAnalysis	[-0.2129 , -0.01875]	0.90276
DIBD	[0.10995 , 0.23395]	0.90276
Distance	[0.0746 , 0.2066]	0.90276
EqualFrequency	[-0.1391 , -0.01505]	0.90276
EqualWidth	[-0.11765 , -0.02005]	0.90276
Extended Chi2	[-0.0052 , 0.1421]	0.90276
FFD	[-0.2033 , -0.03735]	0.90276
FUSINTER	[-0.1102 , -0.0072]	0.90276
HDD	[-0.2368 , -0.02845]	0.90276
HellingerBD	[-0.0696 , 0.0005]	0.90276
Heter-Disc	[0.30635 , 0.51]	0.90276
ID3	[-0.25075 , -0.05965]	0.90276
IDD	[-0.082 , 0]	0.90276
Khiops	[-0.1691 , -0.0243]	0.90276
MDLP	[0.03515 , 0.16915]	0.90276
Modified Chi2	[-0.23 , -0.0402]	0.90276
MODL	[-0.0774 , -0.0009]	0.90276
MVD	[0.0116 , 0.241]	0.90276
PKID	[-0.24815 , -0.05425]	0.90276
UCPD	[-0.0218 , 0.04205]	0.90276
USD	[-0.1651 , -0.04925]	0.90276
Zeta	[0.02095 , 0.15285]	0.90276

Table 23: Confidence intervals for algorithm ChiMerge ($\alpha=0.90$)

$\alpha=0.95$	Confidence interval	Exact confidence
1R	[-0.0176 , 0.1369]	0.95024
Ameva	[-0.00765 , 0.00905]	0.95024
Bayesian	[-0.08745 , 0.0022]	0.95024
CACC	[-0.01155 , 0.12215]	0.95024
CADD	[0.25825 , 0.51635]	0.95024
CAIM	[0 , 0.0275]	0.95024
Chi2	[-0.2011 , 0.0256]	0.95024
ClusterAnalysis	[-0.223 , -0.01235]	0.95024
DIBD	[0.10175 , 0.24405]	0.95024
Distance	[0.0649 , 0.23015]	0.95024
EqualFrequency	[-0.15615 , -0.0109]	0.95024
EqualWidth	[-0.15435 , -0.01355]	0.95024
Extended Chi2	[-0.01715 , 0.1664]	0.95024
FFD	[-0.2368 , -0.034]	0.95024
FUSINTER	[-0.14795 , -0.00255]	0.95024
HDD	[-0.2741 , -0.02135]	0.95024
HellingerBD	[-0.08075 , 0.00155]	0.95024
Heter-Disc	[0.282 , 0.5345]	0.95024
ID3	[-0.2907 , -0.04175]	0.95024
IDD	[-0.08665 , 0.0013]	0.95024
Khiops	[-0.19825 , -0.01785]	0.95024
MDLP	[0.02565 , 0.17845]	0.95024
Modified Chi2	[-0.2835 , -0.0332]	0.95024
MODL	[-0.08975 , 0]	0.95024
MVD	[0.0033 , 0.2756]	0.95024
PKID	[-0.2649 , -0.03985]	0.95024
UCPD	[-0.0325 , 0.05225]	0.95024
USD	[-0.1768 , -0.0358]	0.95024
Zeta	[0.016 , 0.1654]	0.95024

Table 24: Confidence intervals for algorithm ChiMerge ($\alpha=0.95$)

9 Detailed results for ClusterAnalysis

9.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	708.0	112.0	0.003616	0.00435
Ameva	679.5	140.5	0.006321999999999995	0.007088
Bayesian	495.5	297.5	≥ 0.2	1
CACC	637.0	150.0	0.018756	0.01898
CADD	818.5	1.5	1.8186E-11	0
CAIM	681.0	139.0	0.018432	0.01894
Chi2	618.0	202.0	0.004444	0.005071
ChiMerge	640.5	148.5	0.05147	0.050036
DIBD	772.5	47.5	1.681E-7	0.000003
Distance	725.0	55.0	2.068E-7	0.000003
EqualFrequency	563.0	228.0	≥ 0.2	1
EqualWidth	524.0	296.0	≥ 0.2	1
Extended Chi2	705.0	115.0	2.64E-5	0.000071
FFD	218.0	602.0	≥ 0.2	1
FUSINTER	575.0	245.0	≥ 0.2	0.71475
HDD	263.5	556.5	≥ 0.2	1
HellingerBD	669.0	151.0	0.03412	0.03381
Heter-Disc	806.5	13.5	7.203000000000001E-10	0
ID3	115.5	685.5	≥ 0.2	1
IDD	484.0	309.0	≥ 0.2	1
Khiops	486.0	334.0	≥ 0.2	1
MDLP	735.5	84.5	8.294E-6	0.000033
Modified Chi2	411.0	372.0	≥ 0.2	1
MODL	552.5	236.5	≥ 0.2	0.813638
MVD	732.5	52.5	2.441E-6	0.000016
PKID	238.0	582.0	≥ 0.2	1
UCPD	683.5	101.5	2.527E-4	0.000444
USD	328.5	468.5	≥ 0.2	1
Zeta	691.0	92.0	3.126E-5	0.000088

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

9.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
1R	[0.04185 , 0.30055]	0.90276
Ameva	[0.04215 , 0.2449]	0.90276
Bayesian	[0 , 0.04255]	0.90276
CACC	[0.02225 , 0.30555]	0.90276
CADD	[0.4725 , 0.6923]	0.90276
CAIM	[0.0223 , 0.2653]	0.90276
Chi2	[0.02915 , 0.06435]	0.90276
ChiMerge	[0.01875 , 0.2129]	0.90276
DIBD	[0.2468 , 0.43005]	0.90276
Distance	[0.2332 , 0.4195]	0.90276
EqualFrequency	[0.0002 , 0.0353]	0.90276
EqualWidth	[0 , 0.0179]	0.90276
Extended Chi2	[0.0809 , 0.3044]	0.90276
FFD	[-0.0239 , 0]	0.90276
FUSINTER	[0.00035 , 0.0946]	0.90276
HDD	[-0.02425 , 0]	0.90276
HellingerBD	[0.0068 , 0.1349]	0.90276
Heter-Disc	[0.48955 , 0.7186]	0.90276
ID3	[-0.04735 , -0.00285]	0.90276
IDD	[0 , 0.0497]	0.90276
Khiops	[-0.01225 , 0.00215]	0.90276
MDLP	[0.1722 , 0.385]	0.90276
Modified Chi2	[-0.01775 , 0.00255]	0.90276
MODL	[0.0003 , 0.07125]	0.90276
MVD	[0.0967 , 0.45485]	0.90276
PKID	[-0.0389 , 0]	0.90276
UCPD	[0.05135 , 0.21745]	0.90276
USD	[-0.01315 , 0]	0.90276
Zeta	[0.154 , 0.38445]	0.90276

Table 26: Confidence intervals for algorithm ClusterAnalysis ($\alpha=0.90$)

$\alpha=0.95$	Confidence interval	Exact confidence
1R	[0.02495 , 0.34915]	0.95024
Ameva	[0.0252 , 0.2867]	0.95024
Bayesian	[0 , 0.04695]	0.95024
CACC	[0.0173 , 0.32765]	0.95024
CADD	[0.46285 , 0.7213]	0.95024
CAIM	[0.0173 , 0.2803]	0.95024
Chi2	[0.02345 , 0.0682]	0.95024
ChiMerge	[0.01235 , 0.223]	0.95024
DIBD	[0.2242 , 0.44885]	0.95024
Distance	[0.1948 , 0.44105]	0.95024
EqualFrequency	[0 , 0.04265]	0.95024
EqualWidth	[0 , 0.01875]	0.95024
Extended Chi2	[0.06935 , 0.32035]	0.95024
FFD	[-0.0294 , 0]	0.95024
FUSINTER	[0.00015 , 0.1004]	0.95024
HDD	[-0.0256 , 0]	0.95024
HellingerBD	[0.00595 , 0.1825]	0.95024
Heter-Disc	[0.46875 , 0.7717]	0.95024
ID3	[-0.0479 , -0.0002]	0.95024
IDD	[-0.00015 , 0.0845]	0.95024
Khiops	[-0.01995 , 0.01555]	0.95024
MDLP	[0.1162 , 0.4054]	0.95024
Modified Chi2	[-0.02085 , 0.0028]	0.95024
MODL	[0 , 0.0947]	0.95024
MVD	[0.0867 , 0.46805]	0.95024
PKID	[-0.0421 , 0]	0.95024
UCPD	[0.04575 , 0.2242]	0.95024
USD	[-0.015 , 0]	0.95024
Zeta	[0.1102 , 0.40005]	0.95024

Table 27: Confidence intervals for algorithm ClusterAnalysis ($\alpha=0.95$)

10 Detailed results for DIBD

10.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	218.5	601.5	≥ 0.2	1
Ameva	153.5	666.5	≥ 0.2	1
Bayesian	67.0	716.0	≥ 0.2	1
CACC	158.5	661.5	≥ 0.2	1
CADD	643.0	177.0	0.0012976	0.001698
CAIM	105.5	714.5	≥ 0.2	1
Chi2	93.0	727.0	≥ 0.2	1
ChiMerge	67.0	716.0	≥ 0.2	1
ClusterAnalysis	47.5	772.5	≥ 0.2	1
Distance	378.0	442.0	≥ 0.2	1
EqualFrequency	17.5	802.5	≥ 0.2	1
EqualWidth	14.0	769.0	≥ 0.2	1
Extended Chi2	276.0	544.0	≥ 0.2	1
FFD	7.5	812.5	≥ 0.2	1
FUSINTER	33.0	747.0	≥ 0.2	1
HDD	14.5	805.5	≥ 0.2	1
HellingerBD	32.5	787.5	≥ 0.2	1
Heter-Disc	759.0	21.0	1.6262E-9	0
ID3	1.5	818.5	≥ 0.2	1
IDD	125.5	694.5	≥ 0.2	1
Khiops	14.5	805.5	≥ 0.2	1
MDLP	265.0	515.0	≥ 0.2	1
Modified Chi2	10.0	810.0	≥ 0.2	1
MODL	12.5	807.5	≥ 0.2	1
MVD	340.0	440.0	≥ 0.2	1
PKID	1.5	818.5	≥ 0.2	1
UCPD	51.0	729.0	≥ 0.2	1
USD	1.5	818.5	≥ 0.2	1
Zeta	297.0	523.0	≥ 0.2	1

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

10.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
1R	[-0.22735 , -0.03645]	0.90276
Ameva	[-0.2185 , -0.0884]	0.90276
Bayesian	[-0.36015 , -0.1609]	0.90276
CACC	[-0.2131 , -0.0852]	0.90276
CADD	[0.07865 , 0.33675]	0.90276
CAIM	[-0.1975 , -0.0925]	0.90276
Chi2	[-0.3948 , -0.1959]	0.90276
ChiMerge	[-0.23395 , -0.10995]	0.90276
ClusterAnalysis	[-0.43005 , -0.2468]	0.90276
Distance	[-0.0553 , 0.02525]	0.90276
EqualFrequency	[-0.3802 , -0.2037]	0.90276
EqualWidth	[-0.39155 , -0.22175]	0.90276
Extended Chi2	[-0.25115 , -0.0087]	0.90276
FFD	[-0.44535 , -0.2664]	0.90276
FUSINTER	[-0.3248 , -0.1876]	0.90276
HDD	[-0.44035 , -0.2477]	0.90276
HellingerBD	[-0.2829 , -0.16125]	0.90276
Heter-Disc	[0.1237 , 0.28605]	0.90276
ID3	[-0.4705 , -0.2742]	0.90276
IDD	[-0.32505 , -0.1388]	0.90276
Khiops	[-0.3987 , -0.2382]	0.90276
MDLP	[-0.0999 , -0.0024]	0.90276
Modified Chi2	[-0.44055 , -0.2663]	0.90276
MODL	[-0.3156 , -0.1719]	0.90276
MVD	[-0.15775 , 0.0639]	0.90276
PKID	[-0.4585 , -0.2742]	0.90276
UCPD	[-0.23455 , -0.1171]	0.90276
USD	[-0.4258 , -0.24835]	0.90276
Zeta	[-0.1041 , 0.0025]	0.90276

Table 29: Confidence intervals for algorithm DIBD ($\alpha=0.90$)

$\alpha=0.95$	Confidence interval	Exact confidence
1R	[-0.2448 , -0.0183]	0.95024
Ameva	[-0.23195 , -0.0803]	0.95024
Bayesian	[-0.3863 , -0.1493]	0.95024
CACC	[-0.2259 , -0.0687]	0.95024
CADD	[0.06385 , 0.3587]	0.95024
CAIM	[-0.2147 , -0.08395]	0.95024
Chi2	[-0.40985 , -0.1794]	0.95024
ChiMerge	[-0.24405 , -0.10175]	0.95024
ClusterAnalysis	[-0.44885 , -0.2242]	0.95024
Distance	[-0.06585 , 0.03175]	0.95024
EqualFrequency	[-0.4 , -0.18485]	0.95024
EqualWidth	[-0.40915 , -0.1971]	0.95024
Extended Chi2	[-0.27675 , 0.0179]	0.95024
FFD	[-0.4648 , -0.24985]	0.95024
FUSINTER	[-0.3405 , -0.17765]	0.95024
HDD	[-0.45795 , -0.23145]	0.95024
HellingerBD	[-0.30315 , -0.14515]	0.95024
Heter-Disc	[0.11195 , 0.3146]	0.95024
ID3	[-0.4851 , -0.26275]	0.95024
IDD	[-0.3454 , -0.11225]	0.95024
Khiops	[-0.4123 , -0.2255]	0.95024
MDLP	[-0.1081 , 0.0053]	0.95024
Modified Chi2	[-0.4618 , -0.25105]	0.95024
MODL	[-0.33475 , -0.1578]	0.95024
MVD	[-0.1757 , 0.1025]	0.95024
PKID	[-0.47425 , -0.2626]	0.95024
UCPD	[-0.2458 , -0.10525]	0.95024
USD	[-0.4364 , -0.23655]	0.95024
Zeta	[-0.1113 , 0.0121]	0.95024

Table 30: Confidence intervals for algorithm DIBD ($\alpha=0.95$)

11 Detailed results for Distance

11.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	262.0	518.0	≥ 0.2	1
Ameva	124.0	656.0	≥ 0.2	1
Bayesian	86.0	694.0	≥ 0.2	1
CACC	182.0	638.0	≥ 0.2	1
CADD	623.0	157.0	7.94E-4	0.00112
CAIM	87.0	693.0	≥ 0.2	1
Chi2	137.0	683.0	≥ 0.2	1
ChiMerge	41.0	739.0	≥ 0.2	1
ClusterAnalysis	55.0	725.0	≥ 0.2	1
DIBD	442.0	378.0	≥ 0.2	0.662226
EqualFrequency	42.0	738.0	≥ 0.2	1
EqualWidth	12.0	768.0	≥ 0.2	1
Extended Chi2	289.0	531.0	≥ 0.2	1
FFD	0.0	780.0	≥ 0.2	1
FUSINTER	0.0	780.0	≥ 0.2	1
HDD	5.0	775.0	≥ 0.2	1
HellingerBD	64.0	756.0	≥ 0.2	1
Heter-Disc	803.0	17.0	3.766E-10	0
ID3	0.0	780.0	≥ 0.2	1
IDD	159.0	621.0	≥ 0.2	1
Khiops	0.0	780.0	≥ 0.2	1
MDLP	161.0	622.0	≥ 0.2	1
Modified Chi2	5.0	775.0	≥ 0.2	1
MODL	0.0	780.0	≥ 0.2	1
MVD	359.0	421.0	≥ 0.2	1
PKID	0.0	780.0	≥ 0.2	1
UCPD	82.0	698.0	≥ 0.2	1
USD	0.0	780.0	≥ 0.2	1
Zeta	209.0	611.0	≥ 0.2	1

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

11.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
1R	[-0.21965 , -0.0044]	0.90276
Ameva	[-0.19 , -0.04615]	0.90276
Bayesian	[-0.3813 , -0.08625]	0.90276
CACC	[-0.1651 , -0.023]	0.90276
CADD	[0.0793 , 0.3547]	0.90276
CAIM	[-0.1868 , -0.061]	0.90276
Chi2	[-0.38615 , -0.17985]	0.90276
ChiMerge	[-0.2066 , -0.0746]	0.90276
ClusterAnalysis	[-0.4195 , -0.2332]	0.90276
DIBD	[-0.02525 , 0.0553]	0.90276
EqualFrequency	[-0.38525 , -0.17235]	0.90276
EqualWidth	[-0.40675 , -0.1898]	0.90276
Extended Chi2	[-0.2524 , 0.0009]	0.90276
FFD	[-0.44625 , -0.2548]	0.90276
FUSINTER	[-0.3251 , -0.15135]	0.90276
HDD	[-0.45435 , -0.2081]	0.90276
HellingerBD	[-0.30585 , -0.1164]	0.90276
Heter-Disc	[0.1476 , 0.2857]	0.90276
ID3	[-0.4697 , -0.2749]	0.90276
IDD	[-0.34675 , -0.0778]	0.90276
Khiops	[-0.39295 , -0.199]	0.90276
MDLP	[-0.03725 , -0.006]	0.90276
Modified Chi2	[-0.4527 , -0.2427]	0.90276
MODL	[-0.3401 , -0.13035]	0.90276
MVD	[-0.11445 , 0.06505]	0.90276
PKID	[-0.4575 , -0.2749]	0.90276
UCPD	[-0.19995 , -0.0783]	0.90276
USD	[-0.43155 , -0.22375]	0.90276
Zeta	[-0.0732 , -0.0156]	0.90276

Table 32: Confidence intervals for algorithm Distance ($\alpha=0.90$)

$\alpha=0.95$	Confidence interval	Exact confidence
1R	[-0.24815 , 0.0065]	0.95024
Ameva	[-0.20465 , -0.03815]	0.95024
Bayesian	[-0.40405 , -0.0732]	0.95024
CACC	[-0.18015 , -0.0176]	0.95024
CADD	[0.0622 , 0.4001]	0.95024
CAIM	[-0.1998 , -0.05305]	0.95024
Chi2	[-0.40675 , -0.15155]	0.95024
ChiMerge	[-0.23015 , -0.0649]	0.95024
ClusterAnalysis	[-0.44105 , -0.1948]	0.95024
DIBD	[-0.03175 , 0.06585]	0.95024
EqualFrequency	[-0.39915 , -0.14885]	0.95024
EqualWidth	[-0.41365 , -0.1464]	0.95024
Extended Chi2	[-0.27205 , 0.01455]	0.95024
FFD	[-0.4616 , -0.2327]	0.95024
FUSINTER	[-0.3336 , -0.11935]	0.95024
HDD	[-0.46575 , -0.19105]	0.95024
HellingerBD	[-0.32145 , -0.10085]	0.95024
Heter-Disc	[0.136 , 0.301]	0.95024
ID3	[-0.48415 , -0.2356]	0.95024
IDD	[-0.36825 , -0.06495]	0.95024
Khiops	[-0.4051 , -0.1365]	0.95024
MDLP	[-0.03975 , -0.00465]	0.95024
Modified Chi2	[-0.4676 , -0.2246]	0.95024
MODL	[-0.3601 , -0.12]	0.95024
MVD	[-0.1513 , 0.09375]	0.95024
PKID	[-0.4685 , -0.2356]	0.95024
UCPD	[-0.21435 , -0.0689]	0.95024
USD	[-0.4531 , -0.1929]	0.95024
Zeta	[-0.07685 , -0.00965]	0.95024

Table 33: Confidence intervals for algorithm Distance ($\alpha=0.95$)

12 Detailed results for EqualFrequency

12.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	585.5	234.5	0.12468	0.118411
Ameva	652.5	132.5	0.002155	0.002723
Bayesian	383.0	404.0	≥ 0.2	1
CACC	591.5	228.5	≥ 0.2	0.234752
CADD	794.5	25.5	7.178E-9	0.000001
CAIM	672.0	115.0	0.002388	0.003016
Chi2	540.0	280.0	0.08172	0.079415
ChiMerge	658.5	130.5	0.020337	0.020756
ClusterAnalysis	228.0	563.0	≥ 0.2	1
DIBD	802.5	17.5	1.6735E-9	0
Distance	738.0	42.0	4.138E-8	0.000001
EqualWidth	310.5	509.5	≥ 0.2	1
Extended Chi2	656.0	164.0	6.384E-4	0.000922
FFD	89.5	703.5	≥ 0.2	1
FUSINTER	493.5	326.5	≥ 0.2	1
HDD	202.0	618.0	≥ 0.2	1
HellingerBD	592.0	199.0	≥ 0.2	0.681189
Heter-Disc	780.0	0.0	3.638E-12	0
ID3	70.5	749.5	≥ 0.2	1
IDD	358.0	462.0	≥ 0.2	1
Khiops	289.0	502.0	≥ 0.2	1
MDLP	764.5	55.5	4.3750000000000005E-7	0.000005
Modified Chi2	253.0	530.0	≥ 0.2	1
MODL	375.5	413.5	≥ 0.2	1
MVD	746.0	74.0	1.2062E-5	0.000046
PKID	75.5	744.5	≥ 0.2	1
UCPD	686.0	134.0	0.0012772	0.001652
USD	196.5	623.5	≥ 0.2	1
Zeta	724.0	59.0	1.2912E-6	0.00001

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

12.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
1R	[0.0108 , 0.2287]	0.90276
Ameva	[0.0248 , 0.187]	0.90276
Bayesian	[-0.0162 , 0.03195]	0.90276
CACC	[0.0092 , 0.2825]	0.90276
CADD	[0.4421 , 0.6312]	0.90276
CAIM	[0.0303 , 0.1714]	0.90276
Chi2	[0.00455 , 0.057]	0.90276
ChiMerge	[0.01505 , 0.1391]	0.90276
ClusterAnalysis	[-0.0353 , -0.0002]	0.90276
DIBD	[0.2037 , 0.3802]	0.90276
Distance	[0.17235 , 0.38525]	0.90276
EqualWidth	[-0.0154 , 0]	0.90276
Extended Chi2	[0.049 , 0.26165]	0.90276
FFD	[-0.04 , -0.00915]	0.90276
FUSINTER	[-0.0028 , 0.0565]	0.90276
HDD	[-0.0518 , -0.0021]	0.90276
HellingerBD	[0.0018 , 0.06975]	0.90276
Heter-Disc	[0.45985 , 0.63265]	0.90276
ID3	[-0.08335 , -0.00915]	0.90276
IDD	[-0.0113 , 0.0221]	0.90276
Khiops	[-0.01805 , 0]	0.90276
MDLP	[0.12855 , 0.3256]	0.90276
Modified Chi2	[-0.0575 , -0.0007]	0.90276
MODL	[-0.0092 , 0.02595]	0.90276
MVD	[0.13235 , 0.4012]	0.90276
PKID	[-0.0589 , -0.0091]	0.90276
UCPD	[0.02775 , 0.13915]	0.90276
USD	[-0.0513 , -0.0019]	0.90276
Zeta	[0.1123 , 0.35975]	0.90276

Table 35: Confidence intervals for algorithm EqualFrequency ($\alpha=0.90$)

$\alpha=0.95$	Confidence interval	Exact confidence
1R	[0.0038 , 0.25095]	0.95024
Ameva	[0.01615 , 0.2354]	0.95024
Bayesian	[-0.02225 , 0.03815]	0.95024
CACC	[0.00235 , 0.29585]	0.95024
CADD	[0.4205 , 0.6629]	0.95024
CAIM	[0.0224 , 0.18995]	0.95024
Chi2	[-0.01555 , 0.06315]	0.95024
ChiMerge	[0.0109 , 0.15615]	0.95024
ClusterAnalysis	[-0.04265 , 0]	0.95024
DIBD	[0.18485 , 0.4]	0.95024
Distance	[0.14885 , 0.39915]	0.95024
EqualWidth	[-0.0188 , 0.0009]	0.95024
Extended Chi2	[0.0405 , 0.2931]	0.95024
FFD	[-0.0493 , -0.00475]	0.95024
FUSINTER	[-0.0073 , 0.0642]	0.95024
HDD	[-0.05745 , -0.0002]	0.95024
HellingerBD	[0.0005 , 0.0769]	0.95024
Heter-Disc	[0.42455 , 0.65575]	0.95024
ID3	[-0.0849 , -0.00495]	0.95024
IDD	[-0.01805 , 0.0551]	0.95024
Khiops	[-0.02555 , 0.0001]	0.95024
MDLP	[0.1043 , 0.34175]	0.95024
Modified Chi2	[-0.0683 , 0.00005]	0.95024
MODL	[-0.01165 , 0.0335]	0.95024
MVD	[0.12245 , 0.4182]	0.95024
PKID	[-0.07975 , -0.00475]	0.95024
UCPD	[0.0229 , 0.1594]	0.95024
USD	[-0.0547 , -0.00125]	0.95024
Zeta	[0.0825 , 0.36785]	0.95024

Table 36: Confidence intervals for algorithm EqualFrequency ($\alpha=0.95$)

13 Detailed results for EqualWidth

13.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	677.0	108.0	4.122E-4	0.00066
Ameva	657.5	127.5	0.0015731	0.002075
Bayesian	435.5	353.5	≥ 0.2	1
CACC	644.5	175.5	0.03662	0.035834
CADD	765.0	15.0	4.984E-10	0
CAIM	688.0	99.0	7.594E-4	0.001146
Chi2	601.0	219.0	0.009382	0.010053
ChiMerge	686.0	134.0	0.013998	0.014679
ClusterAnalysis	296.0	524.0	≥ 0.2	1
DIBD	769.0	14.0	1.6008E-9	0
Distance	768.0	12.0	2.546E-10	0
EqualFrequency	509.5	310.5	≥ 0.2	1
Extended Chi2	695.0	125.0	5.45E-5	0.000124
FFD	69.5	723.5	≥ 0.2	1
FUSINTER	542.0	245.0	≥ 0.2	0.518196
HDD	218.5	601.5	≥ 0.2	1
HellingerBD	639.0	148.0	0.016916	0.017481
Heter-Disc	780.0	0.0	3.638E-12	0
ID3	45.5	747.5	≥ 0.2	1
IDD	403.0	417.0	≥ 0.2	1
Khiops	332.0	461.0	≥ 0.2	1
MDLP	787.5	32.5	2.175E-8	0.000001
Modified Chi2	390.0	430.0	≥ 0.2	1
MODL	517.0	303.0	≥ 0.2	1
MVD	740.5	44.5	9.156E-7	0.000009
PKID	52.5	767.5	≥ 0.2	1
UCPD	711.0	109.0	2.326E-4	0.000409
USD	229.5	590.5	≥ 0.2	1
Zeta	750.5	69.5	1.9794E-6	0.000012

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

13.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
1R	[0.02345 , 0.2639]	0.90276
Ameva	[0.02775 , 0.22775]	0.90276
Bayesian	[-0.00265 , 0.0259]	0.90276
CACC	[0.0216 , 0.26685]	0.90276
CADD	[0.44765 , 0.662]	0.90276
CAIM	[0.02315 , 0.20105]	0.90276
Chi2	[0.0215 , 0.06]	0.90276
ChiMerge	[0.02005 , 0.11765]	0.90276
ClusterAnalysis	[-0.0179 , 0]	0.90276
DIBD	[0.22175 , 0.39155]	0.90276
Distance	[0.1898 , 0.40675]	0.90276
EqualFrequency	[0 , 0.0154]	0.90276
Extended Chi2	[0.05675 , 0.2908]	0.90276
FFD	[-0.0372 , -0.0026]	0.90276
FUSINTER	[0.0005 , 0.05285]	0.90276
HDD	[-0.03535 , -0.0003]	0.90276
HellingerBD	[0.00505 , 0.07405]	0.90276
Heter-Disc	[0.46395 , 0.6486]	0.90276
ID3	[-0.0509 , -0.00265]	0.90276
IDD	[-0.0011 , 0.02225]	0.90276
Khiops	[-0.01355 , 0.0001]	0.90276
MDLP	[0.10915 , 0.3468]	0.90276
Modified Chi2	[-0.02915 , 0.0014]	0.90276
MODL	[0 , 0.03135]	0.90276
MVD	[0.10635 , 0.43405]	0.90276
PKID	[-0.04255 , -0.00265]	0.90276
UCPD	[0.0445 , 0.14365]	0.90276
USD	[-0.0243 , -0.00025]	0.90276
Zeta	[0.0825 , 0.37825]	0.90276

Table 38: Confidence intervals for algorithm EqualWidth ($\alpha=0.90$)

$\alpha=0.95$	Confidence interval	Exact confidence
1R	[0.0212 , 0.27465]	0.95024
Ameva	[0.0239 , 0.24515]	0.95024
Bayesian	[-0.00855 , 0.0412]	0.95024
CACC	[0.0133 , 0.29085]	0.95024
CADD	[0.42985 , 0.70075]	0.95024
CAIM	[0.0177 , 0.20955]	0.95024
Chi2	[0.017 , 0.06465]	0.95024
ChiMerge	[0.01355 , 0.15435]	0.95024
ClusterAnalysis	[-0.01875 , 0]	0.95024
DIBD	[0.1971 , 0.40915]	0.95024
Distance	[0.1464 , 0.41365]	0.95024
EqualFrequency	[-0.0009 , 0.0188]	0.95024
Extended Chi2	[0.04775 , 0.30655]	0.95024
FFD	[-0.04245 , -0.0014]	0.95024
FUSINTER	[0 , 0.07915]	0.95024
HDD	[-0.0393 , 0]	0.95024
HellingerBD	[0.00385 , 0.07805]	0.95024
Heter-Disc	[0.45055 , 0.6673]	0.95024
ID3	[-0.0547 , -0.0015]	0.95024
IDD	[-0.00265 , 0.083]	0.95024
Khiops	[-0.0165 , 0.00015]	0.95024
MDLP	[0.0886 , 0.36405]	0.95024
Modified Chi2	[-0.03165 , 0.00165]	0.95024
MODL	[-0.0005 , 0.0408]	0.95024
MVD	[0.0838 , 0.45075]	0.95024
PKID	[-0.0506 , -0.00145]	0.95024
UCPD	[0.0331 , 0.15915]	0.95024
USD	[-0.0336 , 0]	0.95024
Zeta	[0.0677 , 0.38415]	0.95024

Table 39: Confidence intervals for algorithm EqualWidth ($\alpha=0.95$)

14 Detailed results for Extended Chi2

14.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	405.0	415.0	≥ 0.2	1
Ameva	384.0	436.0	≥ 0.2	1
Bayesian	221.5	558.5	≥ 0.2	1
CACC	387.0	433.0	≥ 0.2	1
CADD	696.5	123.5	1.8018E-4	0.000332
CAIM	325.0	455.0	≥ 0.2	1
Chi2	170.0	650.0	≥ 0.2	1
ChiMerge	297.0	523.0	≥ 0.2	1
ClusterAnalysis	115.0	705.0	≥ 0.2	1
DIBD	544.0	276.0	0.0725	0.070629
Distance	531.0	289.0	0.10582	0.102444
EqualFrequency	164.0	656.0	≥ 0.2	1
EqualWidth	125.0	695.0	≥ 0.2	1
FFD	42.0	778.0	≥ 0.2	1
FUSINTER	263.0	557.0	≥ 0.2	1
HDD	67.0	753.0	≥ 0.2	1
HellingerBD	259.0	561.0	≥ 0.2	1
Heter-Disc	690.0	90.0	6.864E-6	0.000027
ID3	0.0	820.0	≥ 0.2	1
IDD	289.0	531.0	≥ 0.2	1
Khiops	156.5	663.5	≥ 0.2	1
MDLP	468.0	352.0	≥ 0.2	0.430908
Modified Chi2	0.0	820.0	≥ 0.2	1
MODL	253.0	567.0	≥ 0.2	1
MVD	505.0	315.0	≥ 0.2	0.199267
PKID	23.0	797.0	≥ 0.2	1
UCPD	346.0	474.0	≥ 0.2	1
USD	76.0	744.0	≥ 0.2	1
Zeta	489.0	331.0	≥ 0.2	0.285258

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

14.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
1R	[-0.1469 , 0.1254]	0.90276
Ameva	[-0.1077 , 0.0856]	0.90276
Bayesian	[-0.27125 , -0.02555]	0.90276
CACC	[-0.10605 , 0.1634]	0.90276
CADD	[0.2256 , 0.4938]	0.90276
CAIM	[-0.0874 , 0.0298]	0.90276
Chi2	[-0.22555 , -0.0427]	0.90276
ChiMerge	[-0.1421 , 0.0052]	0.90276
ClusterAnalysis	[-0.3044 , -0.0809]	0.90276
DIBD	[0.0087 , 0.25115]	0.90276
Distance	[-0.0009 , 0.2524]	0.90276
EqualFrequency	[-0.26165 , -0.049]	0.90276
EqualWidth	[-0.2908 , -0.05675]	0.90276
FFD	[-0.32325 , -0.09695]	0.90276
FUSINTER	[-0.2524 , -0.00705]	0.90276
HDD	[-0.31525 , -0.09205]	0.90276
HellingerBD	[-0.1994 , -0.01345]	0.90276
Heter-Disc	[0.25525 , 0.5092]	0.90276
ID3	[-0.3305 , -0.1241]	0.90276
IDD	[-0.2391 , 0.0009]	0.90276
Khiops	[-0.29725 , -0.049]	0.90276
MDLP	[-0.0364 , 0.19835]	0.90276
Modified Chi2	[-0.32105 , -0.0858]	0.90276
MODL	[-0.2434 , -0.0142]	0.90276
MVD	[-0.02195 , 0.2454]	0.90276
PKID	[-0.3265 , -0.1136]	0.90276
UCPD	[-0.14985 , 0.0406]	0.90276
USD	[-0.31785 , -0.07985]	0.90276
Zeta	[-0.0196 , 0.2315]	0.90276

Table 41: Confidence intervals for algorithm Extended Chi2 ($\alpha=0.90$)

$\alpha=0.95$	Confidence interval	Exact confidence
1R	[-0.1771 , 0.15545]	0.95024
Ameva	[-0.1459 , 0.11155]	0.95024
Bayesian	[-0.2938 , -0.01405]	0.95024
CACC	[-0.1382 , 0.1868]	0.95024
CADD	[0.19025 , 0.50805]	0.95024
CAIM	[-0.1059 , 0.05595]	0.95024
Chi2	[-0.23945 , -0.0358]	0.95024
ChiMerge	[-0.1664 , 0.01715]	0.95024
ClusterAnalysis	[-0.32035 , -0.06935]	0.95024
DIBD	[-0.0179 , 0.27675]	0.95024
Distance	[-0.01455 , 0.27205]	0.95024
EqualFrequency	[-0.2931 , -0.0405]	0.95024
EqualWidth	[-0.30655 , -0.04775]	0.95024
FFD	[-0.3341 , -0.08695]	0.95024
FUSINTER	[-0.28625 , -0.0013]	0.95024
HDD	[-0.3265 , -0.0781]	0.95024
HellingerBD	[-0.23355 , -0.0024]	0.95024
Heter-Disc	[0.22915 , 0.5321]	0.95024
ID3	[-0.34495 , -0.11055]	0.95024
IDD	[-0.27715 , 0.0215]	0.95024
Khiops	[-0.3122 , -0.04045]	0.95024
MDLP	[-0.0597 , 0.22915]	0.95024
Modified Chi2	[-0.3288 , -0.0741]	0.95024
MODL	[-0.2746 , -0.0034]	0.95024
MVD	[-0.04 , 0.2732]	0.95024
PKID	[-0.3404 , -0.0974]	0.95024
UCPD	[-0.1922 , 0.0642]	0.95024
USD	[-0.3247 , -0.06555]	0.95024
Zeta	[-0.0277 , 0.2495]	0.95024

Table 42: Confidence intervals for algorithm Extended Chi2 ($\alpha=0.95$)

15 Detailed results for FFD

15.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	733.5	55.5	5.318E-5	0.000155
Ameva	809.5	10.5	5.704E-9	0.000001
Bayesian	588.0	205.0	≥ 0.2	1
CACC	747.0	40.0	2.016E-6	0.000016
CADD	780.0	0.0	3.638E-12	0
CAIM	802.0	18.0	1.1782E-7	0.000004
Chi2	742.0	78.0	1.1622E-6	0.000008
ChiMerge	766.5	22.5	5.476000000000001E-7	0.000009
ClusterAnalysis	602.0	218.0	≥ 0.2	1
DIBD	812.5	7.5	1.6007E-10	0
Distance	780.0	0.0	3.638E-12	0
EqualFrequency	703.5	89.5	0.015627	0.015964
EqualWidth	723.5	69.5	0.003107	0.003939
Extended Chi2	778.0	42.0	2.07E-8	0.000001
FUSINTER	745.0	75.0	1.9508E-4	0.000371
HDD	367.5	433.5	≥ 0.2	1
HellingerBD	767.0	53.0	7.91E-5	0.000206
Heter-Disc	780.0	0.0	3.638E-12	0
ID3	204.5	615.5	≥ 0.2	1
IDD	639.0	156.0	≥ 0.2	0.848591
Khiops	688.0	132.0	≥ 0.2	0.595789
MDLP	818.5	1.5	1.8186E-11	0
Modified Chi2	599.0	184.0	0.010562	0.011108
MODL	715.0	105.0	0.007612	0.008302
MVD	777.5	7.5	1.2806E-9	0
PKID	370.5	432.5	≥ 0.2	1
UCPD	777.5	7.5	1.2806E-9	0
USD	500.0	299.0	≥ 0.2	1
Zeta	769.0	14.0	1.6008E-9	0

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

15.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
1R	[0.05275 , 0.3356]	0.90276
Ameva	[0.04645 , 0.3189]	0.90276
Bayesian	[0.00045 , 0.04925]	0.90276
CACC	[0.04185 , 0.3193]	0.90276
CADD	[0.493 , 0.72965]	0.90276
CAIM	[0.05405 , 0.2612]	0.90276
Chi2	[0.04065 , 0.0862]	0.90276
ChiMerge	[0.03735 , 0.2033]	0.90276
ClusterAnalysis	[0 , 0.0239]	0.90276
DIBD	[0.2664 , 0.44535]	0.90276
Distance	[0.2548 , 0.44625]	0.90276
EqualFrequency	[0.00915 , 0.04]	0.90276
EqualWidth	[0.0026 , 0.0372]	0.90276
Extended Chi2	[0.09695 , 0.32325]	0.90276
FUSINTER	[0.0045 , 0.13855]	0.90276
HDD	[-0.0002 , 0]	0.90276
HellingerBD	[0.01935 , 0.12675]	0.90276
Heter-Disc	[0.50775 , 0.7046]	0.90276
ID3	[-0.0034 , 0]	0.90276
IDD	[0.00025 , 0.1208]	0.90276
Khiops	[0.0005 , 0.0342]	0.90276
MDLP	[0.1978 , 0.40645]	0.90276
Modified Chi2	[0.0017 , 0.00585]	0.90276
MODL	[0.00435 , 0.0967]	0.90276
MVD	[0.1899 , 0.48615]	0.90276
PKID	[-0.00015 , 0]	0.90276
UCPD	[0.0773 , 0.2242]	0.90276
USD	[0 , 0.00155]	0.90276
Zeta	[0.154 , 0.4197]	0.90276

Table 44: Confidence intervals for algorithm FFD ($\alpha=0.90$)

$\alpha=0.95$	Confidence interval	Exact confidence
1R	[0.0469 , 0.41275]	0.95024
Ameva	[0.03985 , 0.32585]	0.95024
Bayesian	[0.0002 , 0.05765]	0.95024
CACC	[0.0283 , 0.33865]	0.95024
CADD	[0.48295 , 0.7573]	0.95024
CAIM	[0.03705 , 0.32675]	0.95024
Chi2	[0.0389 , 0.09915]	0.95024
ChiMerge	[0.034 , 0.2368]	0.95024
ClusterAnalysis	[0 , 0.0294]	0.95024
DIBD	[0.24985 , 0.4648]	0.95024
Distance	[0.2327 , 0.4616]	0.95024
EqualFrequency	[0.00475 , 0.0493]	0.95024
EqualWidth	[0.0014 , 0.04245]	0.95024
Extended Chi2	[0.08695 , 0.3341]	0.95024
FUSINTER	[0.0026 , 0.1405]	0.95024
HDD	[-0.0023 , 0]	0.95024
HellingerBD	[0.0085 , 0.1681]	0.95024
Heter-Disc	[0.5011 , 0.7577]	0.95024
ID3	[-0.0046 , 0]	0.95024
IDD	[0.0001 , 0.12355]	0.95024
Khiops	[0.0003 , 0.0347]	0.95024
MDLP	[0.1552 , 0.41535]	0.95024
Modified Chi2	[0.0015 , 0.0065]	0.95024
MODL	[0.0034 , 0.10245]	0.95024
MVD	[0.1442 , 0.4988]	0.95024
PKID	[-0.0002 , 0]	0.95024
UCPD	[0.0642 , 0.24135]	0.95024
USD	[0 , 0.0023]	0.95024
Zeta	[0.1288 , 0.43155]	0.95024

Table 45: Confidence intervals for algorithm FFD ($\alpha=0.95$)

16 Detailed results for FUSINTER

16.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	577.5	242.5	0.06401	0.062386
Ameva	644.5	138.5	9.087E-4	0.001251
Bayesian	384.0	436.0	≥ 0.2	1
CACC	685.0	135.0	0.0013592	0.001817
CADD	744.0	36.0	1.811E-8	0.000001
CAIM	581.5	203.5	0.06869	0.066585
Chi2	435.0	385.0	≥ 0.2	0.731784
ChiMerge	561.5	223.5	0.13746	0.131841
ClusterAnalysis	245.0	575.0	≥ 0.2	1
DIBD	747.0	33.0	1.1688E-8	0.000001
Distance	780.0	0.0	3.638E-12	0
EqualFrequency	326.5	493.5	≥ 0.2	1
EqualWidth	245.0	542.0	≥ 0.2	1
Extended Chi2	557.0	263.0	0.04816	0.047413
FFD	75.0	745.0	≥ 0.2	1
HDD	154.0	666.0	≥ 0.2	1
HellingerBD	434.0	386.0	≥ 0.2	1
Heter-Disc	780.0	0.0	3.638E-12	0
ID3	18.0	802.0	≥ 0.2	1
IDD	350.5	434.5	≥ 0.2	1
Khiops	197.5	622.5	≥ 0.2	1
MDLP	769.5	50.5	2.429E-7	0.000003
Modified Chi2	193.5	626.5	≥ 0.2	1
MODL	367.5	452.5	≥ 0.2	1
MVD	681.0	139.0	0.0017372	0.002245
PKID	18.0	802.0	≥ 0.2	1
UCPD	693.0	127.0	8.158E-4	0.001152
USD	74.0	746.0	≥ 0.2	1
Zeta	743.0	77.0	4.134E-6	0.000019

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

16.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
1R	[0.0039 , 0.2466]	0.90276
Ameva	[0.0226 , 0.16955]	0.90276
Bayesian	[-0.02195 , 0.02055]	0.90276
CACC	[0.02685 , 0.16245]	0.90276
CADD	[0.3651 , 0.56645]	0.90276
CAIM	[0.0089 , 0.16075]	0.90276
Chi2	[-0.04985 , 0.03715]	0.90276
ChiMerge	[0.0072 , 0.1102]	0.90276
ClusterAnalysis	[-0.0946 , -0.00035]	0.90276
DIBD	[0.1876 , 0.3248]	0.90276
Distance	[0.15135 , 0.3251]	0.90276
EqualFrequency	[-0.0565 , 0.0028]	0.90276
EqualWidth	[-0.05285 , -0.0005]	0.90276
Extended Chi2	[0.00705 , 0.2524]	0.90276
FFD	[-0.13855 , -0.0045]	0.90276
HDD	[-0.1128 , -0.00185]	0.90276
HellingerBD	[-0.0048 , 0.0431]	0.90276
Heter-Disc	[0.4022 , 0.5901]	0.90276
ID3	[-0.1411 , -0.0145]	0.90276
IDD	[-0.01075 , 0.0204]	0.90276
Khiops	[-0.0371 , -0.0006]	0.90276
MDLP	[0.07515 , 0.2567]	0.90276
Modified Chi2	[-0.13235 , -0.0059]	0.90276
MODL	[-0.0125 , 0.0036]	0.90276
MVD	[0.09595 , 0.35795]	0.90276
PKID	[-0.14035 , -0.0145]	0.90276
UCPD	[0.03025 , 0.0964]	0.90276
USD	[-0.04665 , -0.0074]	0.90276
Zeta	[0.05635 , 0.27975]	0.90276

Table 47: Confidence intervals for algorithm FUSINTER ($\alpha=0.90$)

$\alpha=0.95$	Confidence interval	Exact confidence
1R	[0.00085 , 0.26375]	0.95024
Ameva	[0.01575 , 0.1795]	0.95024
Bayesian	[-0.0239 , 0.02535]	0.95024
CACC	[0.01985 , 0.17625]	0.95024
CADD	[0.32665 , 0.5882]	0.95024
CAIM	[0.0064 , 0.1795]	0.95024
Chi2	[-0.07795 , 0.0403]	0.95024
ChiMerge	[0.00255 , 0.14795]	0.95024
ClusterAnalysis	[-0.1004 , -0.00015]	0.95024
DIBD	[0.17765 , 0.3405]	0.95024
Distance	[0.11935 , 0.3336]	0.95024
EqualFrequency	[-0.0642 , 0.0073]	0.95024
EqualWidth	[-0.07915 , 0]	0.95024
Extended Chi2	[0.0013 , 0.28625]	0.95024
FFD	[-0.1405 , -0.0026]	0.95024
HDD	[-0.11875 , -0.0014]	0.95024
HellingerBD	[-0.0124 , 0.0509]	0.95024
Heter-Disc	[0.38015 , 0.6106]	0.95024
ID3	[-0.1455 , -0.01165]	0.95024
IDD	[-0.01175 , 0.0616]	0.95024
Khiops	[-0.0504 , -0.00035]	0.95024
MDLP	[0.0653 , 0.27655]	0.95024
Modified Chi2	[-0.1355 , -0.00325]	0.95024
MODL	[-0.0216 , 0.00575]	0.95024
MVD	[0.0777 , 0.3743]	0.95024
PKID	[-0.1446 , -0.01165]	0.95024
UCPD	[0.0214 , 0.11385]	0.95024
USD	[-0.0635 , -0.00445]	0.95024
Zeta	[0.04115 , 0.31085]	0.95024

Table 48: Confidence intervals for algorithm FUSINTER ($\alpha=0.95$)

17 Detailed results for HDD

17.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	751.0	69.0	1.103E-4	0.000257
Ameva	779.5	40.5	1.0817000000000002E-6	0.000011
Bayesian	600.0	195.0	≥ 0.2	1
CACC	738.0	49.0	6.356E-6	0.000033
CADD	766.0	14.0	4.002E-10	0
CAIM	781.0	39.0	5.53E-5	0.00018
Chi2	734.0	86.0	2.444E-6	0.000013
ChiMerge	722.5	97.5	0.004501	0.00532
ClusterAnalysis	556.5	263.5	≥ 0.2	1
DIBD	805.5	14.5	8.986E-10	0
Distance	775.0	5.0	3.638E-11	0
EqualFrequency	618.0	202.0	≥ 0.2	0.972752
EqualWidth	601.5	218.5	≥ 0.2	1
Extended Chi2	753.0	67.0	3.876E-7	0.000004
FFD	433.5	367.5	≥ 0.2	1
FUSINTER	666.0	154.0	0.03942	0.0379
HellingerBD	682.5	106.5	0.004594	0.005391
Heter-Disc	780.0	0.0	3.638E-12	0
ID3	264.5	555.5	≥ 0.2	1
IDD	606.5	190.5	≥ 0.2	1
Khiops	571.5	248.5	≥ 0.2	1
MDLP	767.5	52.5	3.084E-7	0.000004
Modified Chi2	578.0	242.0	0.15682	0.148968
MODL	656.5	132.5	0.02272	0.023014
MVD	712.5	72.5	2.0563E-5	0.000069
PKID	370.0	433.0	≥ 0.2	1
UCPD	736.5	48.5	1.5112E-6	0.000012
USD	438.5	381.5	≥ 0.2	1
Zeta	769.0	14.0	1.6008E-9	0

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

17.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
1R	[0.0469 , 0.38595]	0.90276
Ameva	[0.0384 , 0.3086]	0.90276
Bayesian	[0.0002 , 0.0411]	0.90276
CACC	[0.0361 , 0.3058]	0.90276
CADD	[0.4891 , 0.72225]	0.90276
CAIM	[0.03035 , 0.2888]	0.90276
Chi2	[0.0377 , 0.07555]	0.90276
ChiMerge	[0.02845 , 0.2368]	0.90276
ClusterAnalysis	[0 , 0.02425]	0.90276
DIBD	[0.2477 , 0.44035]	0.90276
Distance	[0.2081 , 0.45435]	0.90276
EqualFrequency	[0.0021 , 0.0518]	0.90276
EqualWidth	[0.0003 , 0.03535]	0.90276
Extended Chi2	[0.09205 , 0.31525]	0.90276
FFD	[0 , 0.0002]	0.90276
FUSINTER	[0.00185 , 0.1128]	0.90276
HellingerBD	[0.0092 , 0.1559]	0.90276
Heter-Disc	[0.50455 , 0.7187]	0.90276
ID3	[-0.01075 , 0]	0.90276
IDD	[0.0001 , 0.1332]	0.90276
Khiops	[0 , 0.0242]	0.90276
MDLP	[0.18275 , 0.4113]	0.90276
Modified Chi2	[0.0012 , 0.00615]	0.90276
MODL	[0.00395 , 0.07145]	0.90276
MVD	[0.1627 , 0.4808]	0.90276
PKID	[-0.00145 , 0]	0.90276
UCPD	[0.057 , 0.21505]	0.90276
USD	[0 , 0.00155]	0.90276
Zeta	[0.14605 , 0.40175]	0.90276

Table 50: Confidence intervals for algorithm HDD ($\alpha=0.90$)

$\alpha=0.95$	Confidence interval	Exact confidence
1R	[0.0245 , 0.3985]	0.95024
Ameva	[0.034 , 0.32955]	0.95024
Bayesian	[0.00015 , 0.0458]	0.95024
CACC	[0.02725 , 0.31865]	0.95024
CADD	[0.4721 , 0.75255]	0.95024
CAIM	[0.0179 , 0.32955]	0.95024
Chi2	[0.03585 , 0.08115]	0.95024
ChiMerge	[0.02135 , 0.2741]	0.95024
ClusterAnalysis	[0 , 0.0256]	0.95024
DIBD	[0.23145 , 0.45795]	0.95024
Distance	[0.19105 , 0.46575]	0.95024
EqualFrequency	[0.0002 , 0.05745]	0.95024
EqualWidth	[0 , 0.0393]	0.95024
Extended Chi2	[0.0781 , 0.3265]	0.95024
FFD	[0 , 0.0023]	0.95024
FUSINTER	[0.0014 , 0.11875]	0.95024
HellingerBD	[0.006 , 0.1733]	0.95024
Heter-Disc	[0.4967 , 0.78545]	0.95024
ID3	[-0.01085 , 0]	0.95024
IDD	[0 , 0.13895]	0.95024
Khiops	[0 , 0.03455]	0.95024
MDLP	[0.14565 , 0.4229]	0.95024
Modified Chi2	[0.0005 , 0.0076]	0.95024
MODL	[0.0029 , 0.07685]	0.95024
MVD	[0.133 , 0.4992]	0.95024
PKID	[-0.01045 , 0]	0.95024
UCPD	[0.05155 , 0.26455]	0.95024
USD	[0 , 0.00175]	0.95024
Zeta	[0.1121 , 0.42095]	0.95024

Table 51: Confidence intervals for algorithm HDD ($\alpha=0.95$)

18 Detailed results for HellingerBD

18.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	471.0	349.0	≥ 0.2	0.749249
Ameva	546.0	274.0	≥ 0.2	0.349902
Bayesian	290.0	530.0	≥ 0.2	1
CACC	502.5	282.5	≥ 0.2	0.58808
CADD	766.0	54.0	9.226E-8	0.000002
CAIM	528.5	256.5	≥ 0.2	0.332869
Chi2	385.0	435.0	≥ 0.2	1
ChiMerge	497.0	290.0	≥ 0.2	1
ClusterAnalysis	151.0	669.0	≥ 0.2	1
DIBD	787.5	32.5	2.175E-8	0.000001
Distance	756.0	64.0	2.822E-7	0.000003
EqualFrequency	199.0	592.0	≥ 0.2	1
EqualWidth	148.0	639.0	≥ 0.2	1
Extended Chi2	561.0	259.0	0.0422	0.041715
FFD	53.0	767.0	≥ 0.2	1
FUSINTER	386.0	434.0	≥ 0.2	1
HDD	106.5	682.5	≥ 0.2	1
Heter-Disc	780.0	0.0	3.638E-12	0
ID3	40.5	779.5	≥ 0.2	1
IDD	272.5	512.5	≥ 0.2	1
Khiops	172.5	616.5	≥ 0.2	1
MDLP	733.5	86.5	9.917999999999999E-6	0.000037
Modified Chi2	151.0	632.0	≥ 0.2	1
MODL	318.0	469.0	≥ 0.2	1
MVD	628.0	155.0	0.0024	0.002959
PKID	47.5	772.5	≥ 0.2	1
UCPD	546.0	237.0	0.08552	0.082754
USD	89.0	698.0	≥ 0.2	1
Zeta	669.0	114.0	1.754E-4	0.00033

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

18.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
1R	[-0.00395 , 0.1341]	0.90276
Ameva	[0.0006 , 0.15095]	0.90276
Bayesian	[-0.05555 , 0]	0.90276
CACC	[-0.0005 , 0.17075]	0.90276
CADD	[0.35535 , 0.54765]	0.90276
CAIM	[0.0004 , 0.1468]	0.90276
Chi2	[-0.09585 , 0.03625]	0.90276
ChiMerge	[-0.0005 , 0.0696]	0.90276
ClusterAnalysis	[-0.1349 , -0.0068]	0.90276
DIBD	[0.16125 , 0.2829]	0.90276
Distance	[0.1164 , 0.30585]	0.90276
EqualFrequency	[-0.06975 , -0.0018]	0.90276
EqualWidth	[-0.07405 , -0.00505]	0.90276
Extended Chi2	[0.01345 , 0.1994]	0.90276
FFD	[-0.12675 , -0.01935]	0.90276
FUSINTER	[-0.0431 , 0.0048]	0.90276
HDD	[-0.1559 , -0.0092]	0.90276
Heter-Disc	[0.3687 , 0.5678]	0.90276
ID3	[-0.2053 , -0.0278]	0.90276
IDD	[-0.06615 , 0]	0.90276
Khiops	[-0.0732 , -0.002]	0.90276
MDLP	[0.08545 , 0.23925]	0.90276
Modified Chi2	[-0.1288 , -0.01715]	0.90276
MODL	[-0.0494 , 0.0032]	0.90276
MVD	[0.05565 , 0.32865]	0.90276
PKID	[-0.1657 , -0.0203]	0.90276
UCPD	[0.0043 , 0.05555]	0.90276
USD	[-0.11265 , -0.01345]	0.90276
Zeta	[0.05565 , 0.27905]	0.90276

Table 53: Confidence intervals for algorithm HellingerBD ($\alpha=0.90$)

$\alpha=0.95$	Confidence interval	Exact confidence
1R	[-0.007 , 0.14385]	0.95024
Ameva	[-0.0004 , 0.1615]	0.95024
Bayesian	[-0.06865 , 0.0032]	0.95024
CACC	[-0.00145 , 0.2089]	0.95024
CADD	[0.3151 , 0.596]	0.95024
CAIM	[0 , 0.15635]	0.95024
Chi2	[-0.11345 , 0.0404]	0.95024
ChiMerge	[-0.00155 , 0.08075]	0.95024
ClusterAnalysis	[-0.1825 , -0.00595]	0.95024
DIBD	[0.14515 , 0.30315]	0.95024
Distance	[0.10085 , 0.32145]	0.95024
EqualFrequency	[-0.0769 , -0.0005]	0.95024
EqualWidth	[-0.07805 , -0.00385]	0.95024
Extended Chi2	[0.0024 , 0.23355]	0.95024
FFD	[-0.1681 , -0.0085]	0.95024
FUSINTER	[-0.0509 , 0.0124]	0.95024
HDD	[-0.1733 , -0.006]	0.95024
Heter-Disc	[0.3433 , 0.58815]	0.95024
ID3	[-0.22335 , -0.0196]	0.95024
IDD	[-0.07335 , 0.00075]	0.95024
Khiops	[-0.0918 , -0.00155]	0.95024
MDLP	[0.06835 , 0.2503]	0.95024
Modified Chi2	[-0.14485 , -0.01355]	0.95024
MODL	[-0.05575 , 0.02085]	0.95024
MVD	[0.0427 , 0.3631]	0.95024
PKID	[-0.2173 , -0.01535]	0.95024
UCPD	[0.00165 , 0.0691]	0.95024
USD	[-0.13505 , -0.00955]	0.95024
Zeta	[0.0449 , 0.3099]	0.95024

Table 54: Confidence intervals for algorithm HellingerBD ($\alpha=0.95$)

19 Detailed results for Heter-Disc

19.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	79.0	741.0	≥ 0.2	1
Ameva	0.0	780.0	≥ 0.2	1
Bayesian	1.5	818.5	≥ 0.2	1
CACC	3.0	780.0	≥ 0.2	1
CADD	353.0	438.0	≥ 0.2	1
CAIM	0.0	780.0	≥ 0.2	1
Chi2	23.0	797.0	≥ 0.2	1
ChiMerge	0.0	780.0	≥ 0.2	1
ClusterAnalysis	13.5	806.5	≥ 0.2	1
DIBD	21.0	759.0	≥ 0.2	1
Distance	17.0	803.0	≥ 0.2	1
EqualFrequency	0.0	780.0	≥ 0.2	1
EqualWidth	0.0	780.0	≥ 0.2	1
Extended Chi2	90.0	690.0	≥ 0.2	1
FFD	0.0	780.0	≥ 0.2	1
FUSINTER	0.0	780.0	≥ 0.2	1
HDD	0.0	780.0	≥ 0.2	1
HellingerBD	0.0	780.0	≥ 0.2	1
ID3	0.0	780.0	≥ 0.2	1
IDD	46.0	774.0	≥ 0.2	1
Khiops	0.0	780.0	≥ 0.2	1
MDLP	20.0	800.0	≥ 0.2	1
Modified Chi2	1.0	819.0	≥ 0.2	1
MODL	0.0	780.0	≥ 0.2	1
MVD	157.5	662.5	≥ 0.2	1
PKID	0.0	780.0	≥ 0.2	1
UCPD	0.0	780.0	≥ 0.2	1
USD	0.0	780.0	≥ 0.2	1
Zeta	0.0	780.0	≥ 0.2	1

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

19.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
1R	[-0.4964 , -0.21145]	0.90276
Ameva	[-0.4555 , -0.25475]	0.90276
Bayesian	[-0.59865 , -0.42115]	0.90276
CACC	[-0.4685 , -0.21525]	0.90276
CADD	[-0.09635 , 0.03465]	0.90276
CAIM	[-0.48505 , -0.2769]	0.90276
Chi2	[-0.67615 , -0.44655]	0.90276
ChiMerge	[-0.51 , -0.30635]	0.90276
ClusterAnalysis	[-0.7186 , -0.48955]	0.90276
DIBD	[-0.28605 , -0.1237]	0.90276
Distance	[-0.2857 , -0.1476]	0.90276
EqualFrequency	[-0.63265 , -0.45985]	0.90276
EqualWidth	[-0.6486 , -0.46395]	0.90276
Extended Chi2	[-0.5092 , -0.25525]	0.90276
FFD	[-0.7046 , -0.50775]	0.90276
FUSINTER	[-0.5901 , -0.4022]	0.90276
HDD	[-0.7187 , -0.50455]	0.90276
HellingerBD	[-0.5678 , -0.3687]	0.90276
ID3	[-0.78175 , -0.52025]	0.90276
IDD	[-0.5655 , -0.3857]	0.90276
Khiops	[-0.65495 , -0.47645]	0.90276
MDLP	[-0.3531 , -0.18155]	0.90276
Modified Chi2	[-0.72075 , -0.5053]	0.90276
MODL	[-0.5949 , -0.405]	0.90276
MVD	[-0.42575 , -0.08505]	0.90276
PKID	[-0.73685 , -0.51425]	0.90276
UCPD	[-0.5007 , -0.2998]	0.90276
USD	[-0.6716 , -0.50115]	0.90276
Zeta	[-0.3427 , -0.1724]	0.90276

Table 56: Confidence intervals for algorithm Heter-Disc ($\alpha=0.90$)

$\alpha=0.95$	Confidence interval	Exact confidence
1R	[-0.5016 , -0.18235]	0.95024
Ameva	[-0.4736 , -0.23325]	0.95024
Bayesian	[-0.6234 , -0.3869]	0.95024
CACC	[-0.48915 , -0.20315]	0.95024
CADD	[-0.1221 , 0.0665]	0.95024
CAIM	[-0.50015 , -0.2482]	0.95024
Chi2	[-0.71315 , -0.4294]	0.95024
ChiMerge	[-0.5345 , -0.282]	0.95024
ClusterAnalysis	[-0.7717 , -0.46875]	0.95024
DIBD	[-0.3146 , -0.11195]	0.95024
Distance	[-0.301 , -0.136]	0.95024
EqualFrequency	[-0.65575 , -0.42455]	0.95024
EqualWidth	[-0.6673 , -0.45055]	0.95024
Extended Chi2	[-0.5321 , -0.22915]	0.95024
FFD	[-0.7577 , -0.5011]	0.95024
FUSINTER	[-0.6106 , -0.38015]	0.95024
HDD	[-0.78545 , -0.4967]	0.95024
HellingerBD	[-0.58815 , -0.3433]	0.95024
ID3	[-0.815 , -0.50775]	0.95024
IDD	[-0.5919 , -0.31875]	0.95024
Khiops	[-0.66455 , -0.45065]	0.95024
MDLP	[-0.3703 , -0.17205]	0.95024
Modified Chi2	[-0.7806 , -0.4981]	0.95024
MODL	[-0.60715 , -0.3731]	0.95024
MVD	[-0.44045 , -0.06025]	0.95024
PKID	[-0.7988 , -0.50445]	0.95024
UCPD	[-0.5146 , -0.28315]	0.95024
USD	[-0.7165 , -0.4874]	0.95024
Zeta	[-0.36155 , -0.165]	0.95024

Table 57: Confidence intervals for algorithm Heter-Disc ($\alpha=0.95$)

20 Detailed results for ID3

20.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	766.5	22.5	5.476000000000001E-7	0.000009
Ameva	809.5	10.5	5.704E-9	0.000001
Bayesian	720.5	76.5	0.06278	0.059332
CACC	773.0	14.0	2.562E-8	0.000002
CADD	780.0	0.0	3.638E-12	0
CAIM	802.0	18.0	1.1782E-7	0.000004
Chi2	820.0	0.0	1.819E-12	0
ChiMerge	766.5	22.5	5.476000000000001E-7	0.000009
ClusterAnalysis	685.5	115.5	≥ 0.2	1
DIBD	818.5	1.5	1.8186E-11	0
Distance	780.0	0.0	3.638E-12	0
EqualFrequency	749.5	70.5	0.00641	0.007188
EqualWidth	747.5	45.5	2.516E-4	0.00052
Extended Chi2	820.0	0.0	1.819E-12	0
FFD	615.5	204.5	≥ 0.2	1
FUSINTER	802.0	18.0	1.1782E-7	0.000004
HDD	555.5	264.5	≥ 0.2	1
HellingerBD	779.5	40.5	1.7111E-5	0.000075
Heter-Disc	780.0	0.0	3.638E-12	0
IDD	752.0	68.0	0.01787	0.016789
Khiops	735.0	60.0	0.004604	0.005423
MDLP	818.5	1.5	1.8186E-11	0
Modified Chi2	780.0	3.0	7.276E-11	0
MODL	792.5	27.5	2.555E-6	0.000023
MVD	777.5	7.5	1.2806E-9	0
PKID	591.5	217.5	≥ 0.2	1
UCPD	777.5	7.5	1.2806E-9	0
USD	670.0	150.0	≥ 0.2	1
Zeta	780.0	3.0	7.276E-11	0

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

20.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
1R	[0.05745 , 0.3965]	0.90276
Ameva	[0.07385 , 0.35065]	0.90276
Bayesian	[0.0036 , 0.0496]	0.90276
CACC	[0.0518 , 0.34465]	0.90276
CADD	[0.49745 , 0.73155]	0.90276
CAIM	[0.05855 , 0.3152]	0.90276
Chi2	[0.05205 , 0.10245]	0.90276
ChiMerge	[0.05965 , 0.25075]	0.90276
ClusterAnalysis	[0.00285 , 0.04735]	0.90276
DIBD	[0.2742 , 0.4705]	0.90276
Distance	[0.2749 , 0.4697]	0.90276
EqualFrequency	[0.00915 , 0.08335]	0.90276
EqualWidth	[0.00265 , 0.0509]	0.90276
Extended Chi2	[0.1241 , 0.3305]	0.90276
FFD	[0 , 0.0034]	0.90276
FUSINTER	[0.0145 , 0.1411]	0.90276
HDD	[0 , 0.01075]	0.90276
HellingerBD	[0.0278 , 0.2053]	0.90276
Heter-Disc	[0.52025 , 0.78175]	0.90276
IDD	[0.00265 , 0.13255]	0.90276
Khiops	[0.0014 , 0.049]	0.90276
MDLP	[0.20375 , 0.41905]	0.90276
Modified Chi2	[0.00375 , 0.01235]	0.90276
MODL	[0.00575 , 0.09755]	0.90276
MVD	[0.1968 , 0.49945]	0.90276
PKID	[0 , 0.00015]	0.90276
UCPD	[0.084 , 0.26435]	0.90276
USD	[0 , 0.00895]	0.90276
Zeta	[0.17315 , 0.4402]	0.90276

Table 59: Confidence intervals for algorithm ID3 ($\alpha=0.90$)

$\alpha=0.95$	Confidence interval	Exact confidence
1R	[0.0502 , 0.42475]	0.95024
Ameva	[0.05975 , 0.38125]	0.95024
Bayesian	[0.0032 , 0.07095]	0.95024
CACC	[0.0499 , 0.35205]	0.95024
CADD	[0.49315 , 0.76085]	0.95024
CAIM	[0.0542 , 0.36105]	0.95024
Chi2	[0.0495 , 0.10575]	0.95024
ChiMerge	[0.04175 , 0.2907]	0.95024
ClusterAnalysis	[0.0002 , 0.0479]	0.95024
DIBD	[0.26275 , 0.4851]	0.95024
Distance	[0.2356 , 0.48415]	0.95024
EqualFrequency	[0.00495 , 0.0849]	0.95024
EqualWidth	[0.0015 , 0.0547]	0.95024
Extended Chi2	[0.11055 , 0.34495]	0.95024
FFD	[0 , 0.0046]	0.95024
FUSINTER	[0.01165 , 0.1455]	0.95024
HDD	[0 , 0.01085]	0.95024
HellingerBD	[0.0196 , 0.22335]	0.95024
Heter-Disc	[0.50775 , 0.815]	0.95024
IDD	[0.00215 , 0.15465]	0.95024
Khiops	[0.0011 , 0.07015]	0.95024
MDLP	[0.1552 , 0.4346]	0.95024
Modified Chi2	[0.0035 , 0.0148]	0.95024
MODL	[0.00465 , 0.1381]	0.95024
MVD	[0.1456 , 0.5026]	0.95024
PKID	[0 , 0.0002]	0.95024
UCPD	[0.07135 , 0.2734]	0.95024
USD	[0 , 0.0105]	0.95024
Zeta	[0.15325 , 0.44925]	0.95024

Table 60: Confidence intervals for algorithm ID3 ($\alpha=0.95$)

21 Detailed results for IDD

21.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	731.0	60.0	3.322E-4	0.000634
Ameva	588.5	231.5	≥ 0.2	0.255572
Bayesian	321.0	499.0	≥ 0.2	1
CACC	551.5	268.5	≥ 0.2	0.613259
CADD	730.5	52.5	6.151E-7	0.000006
CAIM	543.0	244.0	≥ 0.2	0.508542
Chi2	471.0	349.0	≥ 0.2	0.408441
ChiMerge	507.0	280.0	≥ 0.2	0.985744
ClusterAnalysis	309.0	484.0	≥ 0.2	1
DIBD	694.5	125.5	2.0675E-4	0.00037
Distance	621.0	159.0	8.906E-4	0.001235
EqualFrequency	462.0	358.0	≥ 0.2	1
EqualWidth	417.0	403.0	≥ 0.2	1
Extended Chi2	531.0	289.0	0.10582	0.102444
FFD	156.0	639.0	≥ 0.2	1
FUSINTER	434.5	350.5	≥ 0.2	1
HDD	190.5	606.5	≥ 0.2	1
HellingerBD	512.5	272.5	≥ 0.2	0.481244
Heter-Disc	774.0	46.0	5.542E-7	0.000006
ID3	68.0	752.0	≥ 0.2	1
Khiops	329.0	460.0	≥ 0.2	1
MDLP	602.0	178.0	0.002486	0.003023
Modified Chi2	306.0	477.0	≥ 0.2	1
MODL	441.5	345.5	≥ 0.2	1
MVD	656.0	164.0	0.00701	0.007746
PKID	143.5	676.5	≥ 0.2	1
UCPD	573.0	247.0	0.18142	0.173312
USD	145.5	651.5	≥ 0.2	1
Zeta	597.0	186.0	0.011586	0.012269

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

21.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
1R	[0.0128 , 0.0758]	0.90276
Ameva	[0.004 , 0.16465]	0.90276
Bayesian	[-0.00785 , 0]	0.90276
CACC	[0.00025 , 0.11825]	0.90276
CADD	[0.3238 , 0.5067]	0.90276
CAIM	[0.0009 , 0.13935]	0.90276
Chi2	[-0.0564 , 0.0467]	0.90276
ChiMerge	[0 , 0.082]	0.90276
ClusterAnalysis	[-0.0497 , 0]	0.90276
DIBD	[0.1388 , 0.32505]	0.90276
Distance	[0.0778 , 0.34675]	0.90276
EqualFrequency	[-0.0221 , 0.0113]	0.90276
EqualWidth	[-0.02225 , 0.0011]	0.90276
Extended Chi2	[-0.0009 , 0.2391]	0.90276
FFD	[-0.1208 , -0.00025]	0.90276
FUSINTER	[-0.0204 , 0.01075]	0.90276
HDD	[-0.1332 , -0.0001]	0.90276
HellingerBD	[0 , 0.06615]	0.90276
Heter-Disc	[0.3857 , 0.5655]	0.90276
ID3	[-0.13255 , -0.00265]	0.90276
Khiops	[-0.08315 , 0.00025]	0.90276
MDLP	[0.0491 , 0.26195]	0.90276
Modified Chi2	[-0.1186 , 0.001]	0.90276
MODL	[-0.02095 , 0.0059]	0.90276
MVD	[0.0257 , 0.4072]	0.90276
PKID	[-0.12715 , -0.0012]	0.90276
UCPD	[0.0039 , 0.1113]	0.90276
USD	[-0.11965 , -0.00125]	0.90276
Zeta	[0.0341 , 0.33115]	0.90276

Table 62: Confidence intervals for algorithm IDD ($\alpha=0.90$)

$\alpha=0.95$	Confidence interval	Exact confidence
1R	[0.0109 , 0.1116]	0.95024
Ameva	[0.00095 , 0.1751]	0.95024
Bayesian	[-0.0126 , 0.00015]	0.95024
CACC	[0 , 0.21535]	0.95024
CADD	[0.26605 , 0.5322]	0.95024
CAIM	[0 , 0.1568]	0.95024
Chi2	[-0.10255 , 0.0507]	0.95024
ChiMerge	[-0.0013 , 0.08665]	0.95024
ClusterAnalysis	[-0.0845 , 0.00015]	0.95024
DIBD	[0.11225 , 0.3454]	0.95024
Distance	[0.06495 , 0.36825]	0.95024
EqualFrequency	[-0.0551 , 0.01805]	0.95024
EqualWidth	[-0.083 , 0.00265]	0.95024
Extended Chi2	[-0.0215 , 0.27715]	0.95024
FFD	[-0.12355 , -0.0001]	0.95024
FUSINTER	[-0.0616 , 0.01175]	0.95024
HDD	[-0.13895 , 0]	0.95024
HellingerBD	[-0.00075 , 0.07335]	0.95024
Heter-Disc	[0.31875 , 0.5919]	0.95024
ID3	[-0.15465 , -0.00215]	0.95024
Khiops	[-0.0988 , 0.00045]	0.95024
MDLP	[0.03205 , 0.2853]	0.95024
Modified Chi2	[-0.1411 , 0.0013]	0.95024
MODL	[-0.06275 , 0.01025]	0.95024
MVD	[0.0183 , 0.43115]	0.95024
PKID	[-0.1416 , -0.00025]	0.95024
UCPD	[0.00165 , 0.1211]	0.95024
USD	[-0.12015 , -0.00105]	0.95024
Zeta	[0.01265 , 0.36935]	0.95024

Table 63: Confidence intervals for algorithm IDD ($\alpha=0.95$)

22 Detailed results for Khiops

22.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	655.0	165.0	0.007378	0.008115
Ameva	738.5	81.5	9.307E-5	0.000214
Bayesian	464.0	356.0	≥ 0.2	1
CACC	738.5	81.5	9.307E-5	0.000214
CADD	777.5	2.5	1.4552000000000002E-11	0
CAIM	679.0	108.0	0.0014728	0.001948
Chi2	567.0	253.0	0.0344	0.033958
ChiMerge	695.0	125.0	0.008284	0.009094
ClusterAnalysis	334.0	486.0	≥ 0.2	1
DIBD	805.5	14.5	8.986E-10	0
Distance	780.0	0.0	3.638E-12	0
EqualFrequency	502.0	289.0	≥ 0.2	1
EqualWidth	461.0	332.0	≥ 0.2	1
Extended Chi2	663.5	156.5	4.144E-4	0.000627
FFD	132.0	688.0	≥ 0.2	1
FUSINTER	622.5	197.5	≥ 0.2	0.209201
HDD	248.5	571.5	≥ 0.2	1
HellingerBD	616.5	172.5	0.14333	0.136399
Heter-Disc	780.0	0.0	3.638E-12	0
ID3	60.0	735.0	≥ 0.2	1
IDD	460.0	329.0	≥ 0.2	1
MDLP	808.5	11.5	4.548E-10	0
Modified Chi2	337.0	446.0	≥ 0.2	1
MODL	570.5	249.5	≥ 0.2	1
MVD	732.5	52.5	2.441E-6	0.000016
PKID	60.0	735.0	≥ 0.2	1
UCPD	714.5	70.5	1.6905E-5	0.000058
USD	268.5	524.5	≥ 0.2	1
Zeta	740.0	43.0	1.8866E-7	0.000003

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

22.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
1R	[0.0237 , 0.27495]	0.90276
Ameva	[0.03315 , 0.2531]	0.90276
Bayesian	[-0.0006 , 0.0221]	0.90276
CACC	[0.0311 , 0.2879]	0.90276
CADD	[0.46665 , 0.6651]	0.90276
CAIM	[0.0283 , 0.2172]	0.90276
Chi2	[0.0151 , 0.0564]	0.90276
ChiMerge	[0.0243 , 0.1691]	0.90276
ClusterAnalysis	[-0.00215 , 0.01225]	0.90276
DIBD	[0.2382 , 0.3987]	0.90276
Distance	[0.199 , 0.39295]	0.90276
EqualFrequency	[0 , 0.01805]	0.90276
EqualWidth	[-0.0001 , 0.01355]	0.90276
Extended Chi2	[0.049 , 0.29725]	0.90276
FFD	[-0.0342 , -0.0005]	0.90276
FUSINTER	[0.0006 , 0.0371]	0.90276
HDD	[-0.0242 , 0]	0.90276
HellingerBD	[0.002 , 0.0732]	0.90276
Heter-Disc	[0.47645 , 0.65495]	0.90276
ID3	[-0.049 , -0.0014]	0.90276
IDD	[-0.00025 , 0.08315]	0.90276
MDLP	[0.10545 , 0.34115]	0.90276
Modified Chi2	[-0.01925 , 0.0014]	0.90276
MODL	[0.001 , 0.0494]	0.90276
MVD	[0.1453 , 0.4235]	0.90276
PKID	[-0.04 , -0.0014]	0.90276
UCPD	[0.05 , 0.1814]	0.90276
USD	[-0.01535 , 0]	0.90276
Zeta	[0.1529 , 0.37715]	0.90276

Table 65: Confidence intervals for algorithm Khiops ($\alpha=0.90$)

$\alpha=0.95$	Confidence interval	Exact confidence
1R	[0.0217 , 0.3099]	0.95024
Ameva	[0.02785 , 0.26175]	0.95024
Bayesian	[-0.00215 , 0.02605]	0.95024
CACC	[0.02765 , 0.28945]	0.95024
CADD	[0.43815 , 0.69265]	0.95024
CAIM	[0.0204 , 0.22995]	0.95024
Chi2	[0.0086 , 0.0604]	0.95024
ChiMerge	[0.01785 , 0.19825]	0.95024
ClusterAnalysis	[-0.01555 , 0.01995]	0.95024
DIBD	[0.2255 , 0.4123]	0.95024
Distance	[0.1365 , 0.4051]	0.95024
EqualFrequency	[-0.0001 , 0.02555]	0.95024
EqualWidth	[-0.00015 , 0.0165]	0.95024
Extended Chi2	[0.04045 , 0.3122]	0.95024
FFD	[-0.0347 , -0.0003]	0.95024
FUSINTER	[0.00035 , 0.0504]	0.95024
HDD	[-0.03455 , 0]	0.95024
HellingerBD	[0.00155 , 0.0918]	0.95024
Heter-Disc	[0.45065 , 0.66455]	0.95024
ID3	[-0.07015 , -0.0011]	0.95024
IDD	[-0.00045 , 0.0988]	0.95024
MDLP	[0.0867 , 0.3508]	0.95024
Modified Chi2	[-0.0309 , 0.00165]	0.95024
MODL	[0 , 0.0525]	0.95024
MVD	[0.12075 , 0.43185]	0.95024
PKID	[-0.0488 , -0.0011]	0.95024
UCPD	[0.04375 , 0.2084]	0.95024
USD	[-0.02085 , 0]	0.95024
Zeta	[0.07985 , 0.3841]	0.95024

Table 66: Confidence intervals for algorithm Khiops ($\alpha=0.95$)

23 Detailed results for MDLP

23.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	292.0	528.0	≥ 0.2	1
Ameva	229.0	591.0	≥ 0.2	1
Bayesian	121.0	659.0	≥ 0.2	1
CACC	283.0	537.0	≥ 0.2	1
CADD	693.0	127.0	6.268E-5	0.000139
CAIM	181.0	599.0	≥ 0.2	1
Chi2	175.0	645.0	≥ 0.2	1
ChiMerge	149.5	670.5	≥ 0.2	1
ClusterAnalysis	84.5	735.5	≥ 0.2	1
DIBD	515.0	265.0	0.0823	0.079885
Distance	622.0	161.0	0.003334	0.003958
EqualFrequency	55.5	764.5	≥ 0.2	1
EqualWidth	32.5	787.5	≥ 0.2	1
Extended Chi2	352.0	468.0	≥ 0.2	1
FFD	1.5	818.5	≥ 0.2	1
FUSINTER	50.5	769.5	≥ 0.2	1
HDD	52.5	767.5	≥ 0.2	1
HellingerBD	86.5	733.5	≥ 0.2	1
Heter-Disc	800.0	20.0	6.748E-10	0
ID3	1.5	818.5	≥ 0.2	1
IDD	178.0	602.0	≥ 0.2	1
Khiops	11.5	808.5	≥ 0.2	1
Modified Chi2	9.0	774.0	≥ 0.2	1
MODL	1.5	818.5	≥ 0.2	1
MVD	437.0	383.0	≥ 0.2	0.711654
PKID	1.5	818.5	≥ 0.2	1
UCPD	205.0	615.0	≥ 0.2	1
USD	1.5	818.5	≥ 0.2	1
Zeta	298.0	482.0	≥ 0.2	1

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

23.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
1R	[-0.1717 , 0.0039]	0.90276
Ameva	[-0.14955 , -0.0116]	0.90276
Bayesian	[-0.28045 , -0.0533]	0.90276
CACC	[-0.1124 , -0.0011]	0.90276
CADD	[0.1207 , 0.415]	0.90276
CAIM	[-0.15065 , -0.01725]	0.90276
Chi2	[-0.3391 , -0.11125]	0.90276
ChiMerge	[-0.16915 , -0.03515]	0.90276
ClusterAnalysis	[-0.385 , -0.1722]	0.90276
DIBD	[0.0024 , 0.0999]	0.90276
Distance	[0.006 , 0.03725]	0.90276
EqualFrequency	[-0.3256 , -0.12855]	0.90276
EqualWidth	[-0.3468 , -0.10915]	0.90276
Extended Chi2	[-0.19835 , 0.0364]	0.90276
FFD	[-0.40645 , -0.1978]	0.90276
FUSINTER	[-0.2567 , -0.07515]	0.90276
HDD	[-0.4113 , -0.18275]	0.90276
HellingerBD	[-0.23925 , -0.08545]	0.90276
Heter-Disc	[0.18155 , 0.3531]	0.90276
ID3	[-0.41905 , -0.20375]	0.90276
IDD	[-0.26195 , -0.0491]	0.90276
Khiops	[-0.34115 , -0.10545]	0.90276
Modified Chi2	[-0.4105 , -0.1951]	0.90276
MODL	[-0.23295 , -0.09615]	0.90276
MVD	[-0.05515 , 0.13315]	0.90276
PKID	[-0.41065 , -0.20375]	0.90276
UCPD	[-0.1516 , -0.0322]	0.90276
USD	[-0.40005 , -0.17045]	0.90276
Zeta	[-0.04755 , 0.0051]	0.90276

Table 68: Confidence intervals for algorithm MDLP ($\alpha=0.90$)

$\alpha=0.95$	Confidence interval	Exact confidence
1R	[-0.1824 , 0.022]	0.95024
Ameva	[-0.17555 , -0.00545]	0.95024
Bayesian	[-0.3414 , -0.04765]	0.95024
CACC	[-0.13435 , 0.00435]	0.95024
CADD	[0.105 , 0.43525]	0.95024
CAIM	[-0.1713 , -0.012]	0.95024
Chi2	[-0.35555 , -0.082]	0.95024
ChiMerge	[-0.17845 , -0.02565]	0.95024
ClusterAnalysis	[-0.4054 , -0.1162]	0.95024
DIBD	[-0.0053 , 0.1081]	0.95024
Distance	[0.00465 , 0.03975]	0.95024
EqualFrequency	[-0.34175 , -0.1043]	0.95024
EqualWidth	[-0.36405 , -0.0886]	0.95024
Extended Chi2	[-0.22915 , 0.0597]	0.95024
FFD	[-0.41535 , -0.1552]	0.95024
FUSINTER	[-0.27655 , -0.0653]	0.95024
HDD	[-0.4229 , -0.14565]	0.95024
HellingerBD	[-0.2503 , -0.06835]	0.95024
Heter-Disc	[0.17205 , 0.3703]	0.95024
ID3	[-0.4346 , -0.1552]	0.95024
IDD	[-0.2853 , -0.03205]	0.95024
Khiops	[-0.3508 , -0.0867]	0.95024
Modified Chi2	[-0.4228 , -0.15335]	0.95024
MODL	[-0.2563 , -0.0862]	0.95024
MVD	[-0.0644 , 0.15875]	0.95024
PKID	[-0.4213 , -0.15515]	0.95024
UCPD	[-0.16385 , -0.0211]	0.95024
USD	[-0.4074 , -0.14565]	0.95024
Zeta	[-0.05465 , 0.0128]	0.95024

Table 69: Confidence intervals for algorithm MDLP ($\alpha=0.95$)

24 Detailed results for Modified Chi2

24.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	676.5	103.5	2.113999999999997E-5	0.000058
Ameva	727.0	53.0	1.6374E-7	0.000002
Bayesian	530.5	289.5	≥ 0.2	0.236381
CACC	717.0	103.0	1.0404E-5	0.000036
CADD	770.0	10.0	1.5644E-10	0
CAIM	718.5	101.5	3.508E-5	0.000093
Chi2	784.0	36.0	3.622E-8	0.000001
ChiMerge	704.0	79.0	9.846E-6	0.000038
ClusterAnalysis	372.0	411.0	≥ 0.2	1
DIBD	810.0	10.0	7.822E-11	0
Distance	775.0	5.0	3.638E-11	0
EqualFrequency	530.0	253.0	0.14064	0.131616
EqualWidth	430.0	390.0	≥ 0.2	1
Extended Chi2	820.0	0.0	1.819E-12	0
FFD	184.0	599.0	≥ 0.2	1
FUSINTER	626.5	193.5	0.02774	0.027538
HDD	242.0	578.0	≥ 0.2	1
HellingerBD	632.0	151.0	0.0019134	0.002381
Heter-Disc	819.0	1.0	3.638E-12	0
ID3	3.0	780.0	≥ 0.2	1
IDD	477.0	306.0	≥ 0.2	0.48688
Khiops	446.0	337.0	≥ 0.2	0.820973
MDLP	774.0	9.0	4.802E-10	0
MODL	581.0	239.0	0.1433	0.137637
MVD	761.0	19.0	1.1168E-9	0
PKID	112.0	708.0	≥ 0.2	1
UCPD	734.5	45.5	6.539E-8	0.000001
USD	277.5	505.5	≥ 0.2	1
Zeta	787.0	33.0	5.844E-9	0

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

24.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
1R	[0.05235 , 0.36395]	0.90276
Ameva	[0.0436 , 0.29725]	0.90276
Bayesian	[-0.00005 , 0.04585]	0.90276
CACC	[0.0439 , 0.3055]	0.90276
CADD	[0.4909 , 0.72075]	0.90276
CAIM	[0.0374 , 0.29295]	0.90276
Chi2	[0.0333 , 0.07745]	0.90276
ChiMerge	[0.0402 , 0.23]	0.90276
ClusterAnalysis	[-0.00255 , 0.01775]	0.90276
DIBD	[0.2663 , 0.44055]	0.90276
Distance	[0.2427 , 0.4527]	0.90276
EqualFrequency	[0.0007 , 0.0575]	0.90276
EqualWidth	[-0.0014 , 0.02915]	0.90276
Extended Chi2	[0.0858 , 0.32105]	0.90276
FFD	[-0.00585 , -0.0017]	0.90276
FUSINTER	[0.0059 , 0.13235]	0.90276
HDD	[-0.00615 , -0.0012]	0.90276
HellingerBD	[0.01715 , 0.1288]	0.90276
Heter-Disc	[0.5053 , 0.72075]	0.90276
ID3	[-0.01235 , -0.00375]	0.90276
IDD	[-0.001 , 0.1186]	0.90276
Khiops	[-0.0014 , 0.01925]	0.90276
MDLP	[0.1951 , 0.4105]	0.90276
MODL	[0.0031 , 0.09375]	0.90276
MVD	[0.16705 , 0.48465]	0.90276
PKID	[-0.0102 , -0.0029]	0.90276
UCPD	[0.06955 , 0.22025]	0.90276
USD	[-0.00325 , 0]	0.90276
Zeta	[0.15245 , 0.4147]	0.90276

Table 71: Confidence intervals for algorithm Modified Chi2 ($\alpha=0.90$)

$\alpha=0.95$	Confidence interval	Exact confidence
1R	[0.0444 , 0.3747]	0.95024
Ameva	[0.0377 , 0.3258]	0.95024
Bayesian	[-0.0005 , 0.0643]	0.95024
CACC	[0.0333 , 0.3323]	0.95024
CADD	[0.4788 , 0.7433]	0.95024
CAIM	[0.03265 , 0.3105]	0.95024
Chi2	[0.0314 , 0.08685]	0.95024
ChiMerge	[0.0332 , 0.2835]	0.95024
ClusterAnalysis	[-0.0028 , 0.02085]	0.95024
DIBD	[0.25105 , 0.4618]	0.95024
Distance	[0.2246 , 0.4676]	0.95024
EqualFrequency	[-0.00005 , 0.0683]	0.95024
EqualWidth	[-0.00165 , 0.03165]	0.95024
Extended Chi2	[0.0741 , 0.3288]	0.95024
FFD	[-0.0065 , -0.0015]	0.95024
FUSINTER	[0.00325 , 0.1355]	0.95024
HDD	[-0.0076 , -0.0005]	0.95024
HellingerBD	[0.01355 , 0.14485]	0.95024
Heter-Disc	[0.4981 , 0.7806]	0.95024
ID3	[-0.0148 , -0.0035]	0.95024
IDD	[-0.0013 , 0.1411]	0.95024
Khiops	[-0.00165 , 0.0309]	0.95024
MDLP	[0.15335 , 0.4228]	0.95024
MODL	[0.00065 , 0.11425]	0.95024
MVD	[0.1321 , 0.49695]	0.95024
PKID	[-0.0109 , -0.00265]	0.95024
UCPD	[0.06135 , 0.24275]	0.95024
USD	[-0.0038 , 0.00035]	0.95024
Zeta	[0.1167 , 0.4409]	0.95024

Table 72: Confidence intervals for algorithm Modified Chi2 ($\alpha=0.95$)

25 Detailed results for MODL

25.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	628.5	156.5	0.008456	0.009207
Ameva	647.0	173.0	0.010978	0.011684
Bayesian	338.5	448.5	≥ 0.2	1
CACC	602.5	182.5	0.029359999999999997	0.029374
CADD	760.0	20.0	1.3496E-9	0
CAIM	578.5	241.5	≥ 0.2	0.333033
Chi2	446.0	374.0	≥ 0.2	0.623704
ChiMerge	566.0	254.0	≥ 0.2	0.844345
ClusterAnalysis	236.5	552.5	≥ 0.2	1
DIBD	807.5	12.5	5.748E-10	0
Distance	780.0	0.0	3.638E-12	0
EqualFrequency	413.5	375.5	≥ 0.2	1
EqualWidth	303.0	517.0	≥ 0.2	1
Extended Chi2	567.0	253.0	0.0344	0.034259
FFD	105.0	715.0	≥ 0.2	1
FUSINTER	452.5	367.5	≥ 0.2	1
HDD	132.5	656.5	≥ 0.2	1
HellingerBD	469.0	318.0	≥ 0.2	1
Heter-Disc	780.0	0.0	3.638E-12	0
ID3	27.5	792.5	≥ 0.2	1
IDD	345.5	441.5	≥ 0.2	1
Khiops	249.5	570.5	≥ 0.2	1
MDLP	818.5	1.5	1.8186E-11	0
Modified Chi2	239.0	581.0	≥ 0.2	1
MVD	673.0	147.0	0.002784	0.003389
PKID	27.5	792.5	≥ 0.2	1
UCPD	648.0	135.0	7.294E-4	0.001061
USD	69.5	750.5	≥ 0.2	1
Zeta	764.5	55.5	4.3750000000000005E-7	0.000005

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

25.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
1R	[0.0179 , 0.1548]	0.90276
Ameva	[0.0106 , 0.1694]	0.90276
Bayesian	[-0.0063 , 0.0134]	0.90276
CACC	[0.01525 , 0.1381]	0.90276
CADD	[0.37335 , 0.58665]	0.90276
CAIM	[0.0037 , 0.14055]	0.90276
Chi2	[-0.0537 , 0.04705]	0.90276
ChiMerge	[0.0009 , 0.0774]	0.90276
ClusterAnalysis	[-0.07125 , -0.0003]	0.90276
DIBD	[0.1719 , 0.3156]	0.90276
Distance	[0.13035 , 0.3401]	0.90276
EqualFrequency	[-0.02595 , 0.0092]	0.90276
EqualWidth	[-0.03135 , 0]	0.90276
Extended Chi2	[0.0142 , 0.2434]	0.90276
FFD	[-0.0967 , -0.00435]	0.90276
FUSINTER	[-0.0036 , 0.0125]	0.90276
HDD	[-0.07145 , -0.00395]	0.90276
HellingerBD	[-0.0032 , 0.0494]	0.90276
Heter-Disc	[0.405 , 0.5949]	0.90276
ID3	[-0.09755 , -0.00575]	0.90276
IDD	[-0.0059 , 0.02095]	0.90276
Khiops	[-0.0494 , -0.001]	0.90276
MDLP	[0.09615 , 0.23295]	0.90276
Modified Chi2	[-0.09375 , -0.0031]	0.90276
MVD	[0.08015 , 0.3799]	0.90276
PKID	[-0.0969 , -0.00575]	0.90276
UCPD	[0.022 , 0.08535]	0.90276
USD	[-0.0682 , -0.0054]	0.90276
Zeta	[0.07265 , 0.32245]	0.90276

Table 74: Confidence intervals for algorithm MODL ($\alpha=0.90$)

$\alpha=0.95$	Confidence interval	Exact confidence
1R	[0.01585 , 0.1919]	0.95024
Ameva	[0.0086 , 0.17595]	0.95024
Bayesian	[-0.02295 , 0.0145]	0.95024
CACC	[0.00795 , 0.14805]	0.95024
CADD	[0.33505 , 0.59805]	0.95024
CAIM	[0.0008 , 0.18565]	0.95024
Chi2	[-0.0691 , 0.05215]	0.95024
ChiMerge	[0 , 0.08975]	0.95024
ClusterAnalysis	[-0.0947 , 0]	0.95024
DIBD	[0.1578 , 0.33475]	0.95024
Distance	[0.12 , 0.3601]	0.95024
EqualFrequency	[-0.0335 , 0.01165]	0.95024
EqualWidth	[-0.0408 , 0.0005]	0.95024
Extended Chi2	[0.0034 , 0.2746]	0.95024
FFD	[-0.10245 , -0.0034]	0.95024
FUSINTER	[-0.00575 , 0.0216]	0.95024
HDD	[-0.07685 , -0.0029]	0.95024
HellingerBD	[-0.02085 , 0.05575]	0.95024
Heter-Disc	[0.3731 , 0.60715]	0.95024
ID3	[-0.1381 , -0.00465]	0.95024
IDD	[-0.01025 , 0.06275]	0.95024
Khiops	[-0.0525 , 0]	0.95024
MDLP	[0.0862 , 0.2563]	0.95024
Modified Chi2	[-0.11425 , -0.00065]	0.95024
MVD	[0.07025 , 0.39895]	0.95024
PKID	[-0.12495 , -0.0046]	0.95024
UCPD	[0.01705 , 0.0907]	0.95024
USD	[-0.0734 , -0.00435]	0.95024
Zeta	[0.0696 , 0.3701]	0.95024

Table 75: Confidence intervals for algorithm MODL ($\alpha=0.95$)

26 Detailed results for MVD

26.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	300.0	483.0	≥ 0.2	1
Ameva	302.0	518.0	≥ 0.2	1
Bayesian	142.0	641.0	≥ 0.2	1
CACC	281.5	538.5	≥ 0.2	1
CADD	613.0	172.0	0.018248	0.018511
CAIM	280.0	540.0	≥ 0.2	1
Chi2	155.0	665.0	≥ 0.2	1
ChiMerge	248.0	572.0	≥ 0.2	1
ClusterAnalysis	52.5	732.5	≥ 0.2	1
DIBD	440.0	340.0	≥ 0.2	0.48098
Distance	421.0	359.0	≥ 0.2	0.66024
EqualFrequency	74.0	746.0	≥ 0.2	1
EqualWidth	44.5	740.5	≥ 0.2	1
Extended Chi2	315.0	505.0	≥ 0.2	1
FFD	7.5	777.5	≥ 0.2	1
FUSINTER	139.0	681.0	≥ 0.2	1
HDD	72.5	712.5	≥ 0.2	1
HellingerBD	155.0	628.0	≥ 0.2	1
Heter-Disc	662.5	157.5	0.015704000000000003	0.016303
ID3	7.5	777.5	≥ 0.2	1
IDD	164.0	656.0	≥ 0.2	1
Khiops	52.5	732.5	≥ 0.2	1
MDLP	383.0	437.0	≥ 0.2	1
Modified Chi2	19.0	761.0	≥ 0.2	1
MODL	147.0	673.0	≥ 0.2	1
PKID	7.5	777.5	≥ 0.2	1
UCPD	241.0	579.0	≥ 0.2	1
USD	7.5	777.5	≥ 0.2	1
Zeta	365.0	415.0	≥ 0.2	1

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

26.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
1R	[-0.2758 , 0.0088]	0.90276
Ameva	[-0.132 , 0.0008]	0.90276
Bayesian	[-0.4264 , -0.0662]	0.90276
CACC	[-0.17875 , 0]	0.90276
CADD	[0.08725 , 0.36995]	0.90276
CAIM	[-0.19665 , -0.0017]	0.90276
Chi2	[-0.39845 , -0.1035]	0.90276
ChiMerge	[-0.241 , -0.0116]	0.90276
ClusterAnalysis	[-0.45485 , -0.0967]	0.90276
DIBD	[-0.0639 , 0.15775]	0.90276
Distance	[-0.06505 , 0.11445]	0.90276
EqualFrequency	[-0.4012 , -0.13235]	0.90276
EqualWidth	[-0.43405 , -0.10635]	0.90276
Extended Chi2	[-0.2454 , 0.02195]	0.90276
FFD	[-0.48615 , -0.1899]	0.90276
FUSINTER	[-0.35795 , -0.09595]	0.90276
HDD	[-0.4808 , -0.1627]	0.90276
HellingerBD	[-0.32865 , -0.05565]	0.90276
Heter-Disc	[0.08505 , 0.42575]	0.90276
ID3	[-0.49945 , -0.1968]	0.90276
IDD	[-0.4072 , -0.0257]	0.90276
Khiops	[-0.4235 , -0.1453]	0.90276
MDLP	[-0.13315 , 0.05515]	0.90276
Modified Chi2	[-0.48465 , -0.16705]	0.90276
MODL	[-0.3799 , -0.08015]	0.90276
PKID	[-0.4859 , -0.1967]	0.90276
UCPD	[-0.2388 , -0.0145]	0.90276
USD	[-0.47165 , -0.1479]	0.90276
Zeta	[-0.1043 , 0.07225]	0.90276

Table 77: Confidence intervals for algorithm MVD ($\alpha=0.90$)

$\alpha=0.95$	Confidence interval	Exact confidence
1R	[-0.32655 , 0.0289]	0.95024
Ameva	[-0.15885 , 0.00575]	0.95024
Bayesian	[-0.43835 , -0.05235]	0.95024
CACC	[-0.19735 , 0.00095]	0.95024
CADD	[0.05785 , 0.3987]	0.95024
CAIM	[-0.25625 , 0.0008]	0.95024
Chi2	[-0.41455 , -0.077]	0.95024
ChiMerge	[-0.2756 , -0.0033]	0.95024
ClusterAnalysis	[-0.46805 , -0.0867]	0.95024
DIBD	[-0.1025 , 0.1757]	0.95024
Distance	[-0.09375 , 0.1513]	0.95024
EqualFrequency	[-0.4182 , -0.12245]	0.95024
EqualWidth	[-0.45075 , -0.0838]	0.95024
Extended Chi2	[-0.2732 , 0.04]	0.95024
FFD	[-0.4988 , -0.1442]	0.95024
FUSINTER	[-0.3743 , -0.0777]	0.95024
HDD	[-0.4992 , -0.133]	0.95024
HellingerBD	[-0.3631 , -0.0427]	0.95024
Heter-Disc	[0.06025 , 0.44045]	0.95024
ID3	[-0.5026 , -0.1456]	0.95024
IDD	[-0.43115 , -0.0183]	0.95024
Khiops	[-0.43185 , -0.12075]	0.95024
MDLP	[-0.15875 , 0.0644]	0.95024
Modified Chi2	[-0.49695 , -0.1321]	0.95024
MODL	[-0.39895 , -0.07025]	0.95024
PKID	[-0.49765 , -0.1453]	0.95024
UCPD	[-0.2859 , -0.00835]	0.95024
USD	[-0.49595 , -0.13865]	0.95024
Zeta	[-0.13105 , 0.1103]	0.95024

Table 78: Confidence intervals for algorithm MVD ($\alpha=0.95$)

27 Detailed results for PKID

27.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	758.0	29.0	4.048E-7	0.000007
Ameva	809.5	10.5	5.704E-9	0.000001
Bayesian	636.5	158.5	≥ 0.2	0.903303
CACC	754.0	33.0	7.48E-7	0.000009
CADD	818.5	1.5	1.8186E-11	0
CAIM	802.0	18.0	1.1782E-7	0.000004
Chi2	789.0	31.0	4.32E-9	0
ChiMerge	766.5	22.5	5.476000000000001E-7	0.000009
ClusterAnalysis	582.0	238.0	≥ 0.2	1
DIBD	818.5	1.5	1.8186E-11	0
Distance	780.0	0.0	3.638E-12	0
EqualFrequency	744.5	75.5	0.009784000000000001	0.010448
EqualWidth	767.5	52.5	0.0011048	0.001709
Extended Chi2	797.0	23.0	1.1642E-9	0
FFD	432.5	370.5	≥ 0.2	1
FUSINTER	802.0	18.0	1.1782E-7	0.000003
HDD	433.0	370.0	≥ 0.2	1
HellingerBD	772.5	47.5	4.156E-5	0.000136
Heter-Disc	780.0	0.0	3.638E-12	0
ID3	217.5	591.5	≥ 0.2	1
IDD	676.5	143.5	≥ 0.2	0.84092
Khiops	735.0	60.0	0.004604	0.005423
MDLP	818.5	1.5	1.8186E-11	0
Modified Chi2	708.0	112.0	2.898E-4	0.000477
MODL	792.5	27.5	2.555E-6	0.000024
MVD	777.5	7.5	1.2806E-9	0
UCPD	777.5	7.5	1.2806E-9	0
USD	567.5	252.5	≥ 0.2	1
Zeta	780.0	3.0	7.276E-11	0

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

27.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
1R	[0.0502 , 0.36095]	0.90276
Ameva	[0.0701 , 0.3197]	0.90276
Bayesian	[0.00185 , 0.04945]	0.90276
CACC	[0.0515 , 0.32775]	0.90276
CADD	[0.4957 , 0.731]	0.90276
CAIM	[0.05815 , 0.29515]	0.90276
Chi2	[0.0447 , 0.09595]	0.90276
ChiMerge	[0.05425 , 0.24815]	0.90276
ClusterAnalysis	[0 , 0.0389]	0.90276
DIBD	[0.2742 , 0.4585]	0.90276
Distance	[0.2749 , 0.4575]	0.90276
EqualFrequency	[0.0091 , 0.0589]	0.90276
EqualWidth	[0.00265 , 0.04255]	0.90276
Extended Chi2	[0.1136 , 0.3265]	0.90276
FFD	[0 , 0.00015]	0.90276
FUSINTER	[0.0145 , 0.14035]	0.90276
HDD	[0 , 0.00145]	0.90276
HellingerBD	[0.0203 , 0.1657]	0.90276
Heter-Disc	[0.51425 , 0.73685]	0.90276
ID3	[-0.00015 , 0]	0.90276
IDD	[0.0012 , 0.12715]	0.90276
Khiops	[0.0014 , 0.04]	0.90276
MDLP	[0.20375 , 0.41065]	0.90276
Modified Chi2	[0.0029 , 0.0102]	0.90276
MODL	[0.00575 , 0.0969]	0.90276
MVD	[0.1967 , 0.4859]	0.90276
UCPD	[0.0832 , 0.23915]	0.90276
USD	[0 , 0.00275]	0.90276
Zeta	[0.17315 , 0.4288]	0.90276

Table 80: Confidence intervals for algorithm PKID ($\alpha=0.90$)

$\alpha=0.95$	Confidence interval	Exact confidence
1R	[0.03945 , 0.4157]	0.95024
Ameva	[0.05975 , 0.3444]	0.95024
Bayesian	[0.00135 , 0.0686]	0.95024
CACC	[0.04155 , 0.3437]	0.95024
CADD	[0.4864 , 0.75985]	0.95024
CAIM	[0.0542 , 0.3316]	0.95024
Chi2	[0.04265 , 0.10165]	0.95024
ChiMerge	[0.03985 , 0.2649]	0.95024
ClusterAnalysis	[0 , 0.0421]	0.95024
DIBD	[0.2626 , 0.47425]	0.95024
Distance	[0.2356 , 0.4685]	0.95024
EqualFrequency	[0.00475 , 0.07975]	0.95024
EqualWidth	[0.00145 , 0.0506]	0.95024
Extended Chi2	[0.0974 , 0.3404]	0.95024
FFD	[0 , 0.0002]	0.95024
FUSINTER	[0.01165 , 0.1446]	0.95024
HDD	[0 , 0.01045]	0.95024
HellingerBD	[0.01535 , 0.2173]	0.95024
Heter-Disc	[0.50445 , 0.7988]	0.95024
ID3	[-0.0002 , 0]	0.95024
IDD	[0.00025 , 0.1416]	0.95024
Khiops	[0.0011 , 0.0488]	0.95024
MDLP	[0.15515 , 0.4213]	0.95024
Modified Chi2	[0.00265 , 0.0109]	0.95024
MODL	[0.0046 , 0.12495]	0.95024
MVD	[0.1453 , 0.49765]	0.95024
UCPD	[0.0705 , 0.2643]	0.95024
USD	[0 , 0.00705]	0.95024
Zeta	[0.15315 , 0.44725]	0.95024

Table 81: Confidence intervals for algorithm PKID ($\alpha=0.95$)

28 Detailed results for UCPD

28.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	446.5	373.5	≥ 0.2	1
Ameva	450.0	335.0	≥ 0.2	1
Bayesian	259.5	560.5	≥ 0.2	1
CACC	416.0	404.0	≥ 0.2	1
CADD	706.0	74.0	1.5624E-6	0.00001
CAIM	383.5	401.5	≥ 0.2	1
Chi2	275.0	545.0	≥ 0.2	1
ChiMerge	375.5	444.5	≥ 0.2	1
ClusterAnalysis	101.5	683.5	≥ 0.2	1
DIBD	729.0	51.0	1.2902E-7	0.000002
Distance	698.0	82.0	3.348E-6	0.000017
EqualFrequency	134.0	686.0	≥ 0.2	1
EqualWidth	109.0	711.0	≥ 0.2	1
Extended Chi2	474.0	346.0	≥ 0.2	0.385962
FFD	7.5	777.5	≥ 0.2	1
FUSINTER	127.0	693.0	≥ 0.2	1
HDD	48.5	736.5	≥ 0.2	1
HellingerBD	237.0	546.0	≥ 0.2	1
Heter-Disc	780.0	0.0	3.638E-12	0
ID3	7.5	777.5	≥ 0.2	1
IDD	247.0	573.0	≥ 0.2	1
Khiops	70.5	714.5	≥ 0.2	1
MDLP	615.0	205.0	0.005096	0.005742
Modified Chi2	45.5	734.5	≥ 0.2	1
MODL	135.0	648.0	≥ 0.2	1
MVD	579.0	241.0	0.1522	0.14616
PKID	7.5	777.5	≥ 0.2	1
USD	7.5	777.5	≥ 0.2	1
Zeta	604.5	215.5	0.023850000000000003	0.024127

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

28.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
1R	[-0.03605 , 0.11795]	0.90276
Ameva	[-0.01365 , 0.04105]	0.90276
Bayesian	[-0.1021 , -0.00345]	0.90276
CACC	[-0.0062 , 0.03445]	0.90276
CADD	[0.25385 , 0.49115]	0.90276
CAIM	[-0.0395 , 0.0327]	0.90276
Chi2	[-0.18315 , -0.00545]	0.90276
ChiMerge	[-0.04205 , 0.0218]	0.90276
ClusterAnalysis	[-0.21745 , -0.05135]	0.90276
DIBD	[0.1171 , 0.23455]	0.90276
Distance	[0.0783 , 0.19995]	0.90276
EqualFrequency	[-0.13915 , -0.02775]	0.90276
EqualWidth	[-0.14365 , -0.0445]	0.90276
Extended Chi2	[-0.0406 , 0.14985]	0.90276
FFD	[-0.2242 , -0.0773]	0.90276
FUSINTER	[-0.0964 , -0.03025]	0.90276
HDD	[-0.21505 , -0.057]	0.90276
HellingerBD	[-0.05555 , -0.0043]	0.90276
Heter-Disc	[0.2998 , 0.5007]	0.90276
ID3	[-0.26435 , -0.084]	0.90276
IDD	[-0.1113 , -0.0039]	0.90276
Khiops	[-0.1814 , -0.05]	0.90276
MDLP	[0.0322 , 0.1516]	0.90276
Modified Chi2	[-0.22025 , -0.06955]	0.90276
MODL	[-0.08535 , -0.022]	0.90276
MVD	[0.0145 , 0.2388]	0.90276
PKID	[-0.23915 , -0.0832]	0.90276
USD	[-0.18425 , -0.066]	0.90276
Zeta	[0.01765 , 0.15135]	0.90276

Table 83: Confidence intervals for algorithm UCPD ($\alpha=0.90$)

$\alpha=0.95$	Confidence interval	Exact confidence
1R	[-0.04615 , 0.1431]	0.95024
Ameva	[-0.02265 , 0.05375]	0.95024
Bayesian	[-0.12095 , -0.0006]	0.95024
CACC	[-0.00965 , 0.06795]	0.95024
CADD	[0.2229 , 0.5101]	0.95024
CAIM	[-0.0461 , 0.0433]	0.95024
Chi2	[-0.2038 , 0.0034]	0.95024
ChiMerge	[-0.05225 , 0.0325]	0.95024
ClusterAnalysis	[-0.2242 , -0.04575]	0.95024
DIBD	[0.10525 , 0.2458]	0.95024
Distance	[0.0689 , 0.21435]	0.95024
EqualFrequency	[-0.1594 , -0.0229]	0.95024
EqualWidth	[-0.15915 , -0.0331]	0.95024
Extended Chi2	[-0.0642 , 0.1922]	0.95024
FFD	[-0.24135 , -0.0642]	0.95024
FUSINTER	[-0.11385 , -0.0214]	0.95024
HDD	[-0.26455 , -0.05155]	0.95024
HellingerBD	[-0.0691 , -0.00165]	0.95024
Heter-Disc	[0.28315 , 0.5146]	0.95024
ID3	[-0.2734 , -0.07135]	0.95024
IDD	[-0.1211 , -0.00165]	0.95024
Khiops	[-0.2084 , -0.04375]	0.95024
MDLP	[0.0211 , 0.16385]	0.95024
Modified Chi2	[-0.24275 , -0.06135]	0.95024
MODL	[-0.0907 , -0.01705]	0.95024
MVD	[0.00835 , 0.2859]	0.95024
PKID	[-0.2643 , -0.0705]	0.95024
USD	[-0.201 , -0.06285]	0.95024
Zeta	[0.00865 , 0.1735]	0.95024

Table 84: Confidence intervals for algorithm UCPD ($\alpha=0.95$)

29 Detailed results for USD

29.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	792.0	28.0	6.906E-7	0.00001
Ameva	801.5	18.5	3.26E-8	0.000002
Bayesian	654.5	142.5	≥ 0.2	1
CACC	748.0	39.0	1.7592E-6	0.000015
CADD	777.0	3.0	1.819E-11	0
CAIM	766.5	22.5	5.476000000000001E-7	0.000009
Chi2	703.0	117.0	3.062E-5	0.00008
ChiMerge	757.5	31.5	2.393E-6	0.000021
ClusterAnalysis	468.5	328.5	≥ 0.2	1
DIBD	818.5	1.5	1.8186E-11	0
Distance	780.0	0.0	3.638E-12	0
EqualFrequency	623.5	196.5	≥ 0.2	0.452807
EqualWidth	590.5	229.5	≥ 0.2	1
Extended Chi2	744.0	76.0	9.584E-7	0.000007
FFD	299.0	500.0	≥ 0.2	1
FUSINTER	746.0	74.0	1.7778E-4	0.000356
HDD	381.5	438.5	≥ 0.2	1
HellingerBD	698.0	89.0	3.43E-4	0.000602
Heter-Disc	780.0	0.0	3.638E-12	0
ID3	150.0	670.0	≥ 0.2	1
IDD	651.5	145.5	≥ 0.2	1
Khiops	524.5	268.5	≥ 0.2	1
MDLP	818.5	1.5	1.8186E-11	0
Modified Chi2	505.5	277.5	≥ 0.2	0.25834
MODL	750.5	69.5	4.393E-4	0.000724
MVD	777.5	7.5	1.2806E-9	0
PKID	252.5	567.5	≥ 0.2	1
UCPD	777.5	7.5	1.2806E-9	0
Zeta	815.0	5.0	2.91E-10	0

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

29.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
1R	[0.05685 , 0.3172]	0.90276
Ameva	[0.0545 , 0.24435]	0.90276
Bayesian	[0.0018 , 0.04695]	0.90276
CACC	[0.03875 , 0.29405]	0.90276
CADD	[0.4879 , 0.67405]	0.90276
CAIM	[0.0469 , 0.2104]	0.90276
Chi2	[0.0355 , 0.07515]	0.90276
ChiMerge	[0.04925 , 0.1651]	0.90276
ClusterAnalysis	[0 , 0.01315]	0.90276
DIBD	[0.24835 , 0.4258]	0.90276
Distance	[0.22375 , 0.43155]	0.90276
EqualFrequency	[0.0019 , 0.0513]	0.90276
EqualWidth	[0.00025 , 0.0243]	0.90276
Extended Chi2	[0.07985 , 0.31785]	0.90276
FFD	[-0.00155 , 0]	0.90276
FUSINTER	[0.0074 , 0.04665]	0.90276
HDD	[-0.00155 , 0]	0.90276
HellingerBD	[0.01345 , 0.11265]	0.90276
Heter-Disc	[0.50115 , 0.6716]	0.90276
ID3	[-0.00895 , 0]	0.90276
IDD	[0.00125 , 0.11965]	0.90276
Khiops	[0 , 0.01535]	0.90276
MDLP	[0.17045 , 0.40005]	0.90276
Modified Chi2	[0 , 0.00325]	0.90276
MODL	[0.0054 , 0.0682]	0.90276
MVD	[0.1479 , 0.47165]	0.90276
PKID	[-0.00275 , 0]	0.90276
UCPD	[0.066 , 0.18425]	0.90276
Zeta	[0.15365 , 0.40065]	0.90276

Table 86: Confidence intervals for algorithm USD ($\alpha=0.90$)

$\alpha=0.95$	Confidence interval	Exact confidence
1R	[0.0487 , 0.3285]	0.95024
Ameva	[0.0433 , 0.2712]	0.95024
Bayesian	[0.00145 , 0.0604]	0.95024
CACC	[0.02725 , 0.30165]	0.95024
CADD	[0.4721 , 0.7116]	0.95024
CAIM	[0.03565 , 0.2408]	0.95024
Chi2	[0.0337 , 0.0847]	0.95024
ChiMerge	[0.0358 , 0.1768]	0.95024
ClusterAnalysis	[0 , 0.015]	0.95024
DIBD	[0.23655 , 0.4364]	0.95024
Distance	[0.1929 , 0.4531]	0.95024
EqualFrequency	[0.00125 , 0.0547]	0.95024
EqualWidth	[0 , 0.0336]	0.95024
Extended Chi2	[0.06555 , 0.3247]	0.95024
FFD	[-0.0023 , 0]	0.95024
FUSINTER	[0.00445 , 0.0635]	0.95024
HDD	[-0.00175 , 0]	0.95024
HellingerBD	[0.00955 , 0.13505]	0.95024
Heter-Disc	[0.4874 , 0.7165]	0.95024
ID3	[-0.0105 , 0]	0.95024
IDD	[0.00105 , 0.12015]	0.95024
Khiops	[0 , 0.02085]	0.95024
MDLP	[0.14565 , 0.4074]	0.95024
Modified Chi2	[-0.00035 , 0.0038]	0.95024
MODL	[0.00435 , 0.0734]	0.95024
MVD	[0.13865 , 0.49595]	0.95024
PKID	[-0.00705 , 0]	0.95024
UCPD	[0.06285 , 0.201]	0.95024
Zeta	[0.12245 , 0.41415]	0.95024

Table 87: Confidence intervals for algorithm USD ($\alpha=0.95$)

30 Detailed results for Zeta

30.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	314.5	505.5	≥ 0.2	1
Ameva	157.5	625.5	≥ 0.2	1
Bayesian	130.5	689.5	≥ 0.2	1
CACC	245.0	538.0	≥ 0.2	1
CADD	699.0	121.0	4.098E-5	0.0001
CAIM	64.5	720.5	≥ 0.2	1
Chi2	191.0	629.0	≥ 0.2	1
ChiMerge	109.0	674.0	≥ 0.2	1
ClusterAnalysis	92.0	691.0	≥ 0.2	1
DIBD	523.0	297.0	≥ 0.2	0.56635
Distance	611.0	209.0	0.006096	0.006668
EqualFrequency	59.0	724.0	≥ 0.2	1
EqualWidth	69.5	750.5	≥ 0.2	1
Extended Chi2	331.0	489.0	≥ 0.2	1
FFD	14.0	769.0	≥ 0.2	1
FUSINTER	77.0	743.0	≥ 0.2	1
HDD	14.0	769.0	≥ 0.2	1
HellingerBD	114.0	669.0	≥ 0.2	1
Heter-Disc	780.0	0.0	3.638E-12	0
ID3	3.0	780.0	≥ 0.2	1
IDD	186.0	597.0	≥ 0.2	1
Khiops	43.0	740.0	≥ 0.2	1
MDLP	482.0	298.0	≥ 0.2	0.19676
Modified Chi2	33.0	787.0	≥ 0.2	1
MODL	55.5	764.5	≥ 0.2	1
MVD	415.0	365.0	≥ 0.2	0.721951
PKID	3.0	780.0	≥ 0.2	1
UCPD	215.5	604.5	≥ 0.2	1
USD	5.0	815.0	≥ 0.2	1

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

30.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
1R	[-0.13525 , 0.0177]	0.90276
Ameva	[-0.15405 , -0.00965]	0.90276
Bayesian	[-0.36165 , -0.04305]	0.90276
CACC	[-0.11325 , -0.0026]	0.90276
CADD	[0.107 , 0.39805]	0.90276
CAIM	[-0.1263 , -0.01865]	0.90276
Chi2	[-0.3493 , -0.1086]	0.90276
ChiMerge	[-0.15285 , -0.02095]	0.90276
ClusterAnalysis	[-0.38445 , -0.154]	0.90276
DIBD	[-0.0025 , 0.1041]	0.90276
Distance	[0.0156 , 0.0732]	0.90276
EqualFrequency	[-0.35975 , -0.1123]	0.90276
EqualWidth	[-0.37825 , -0.0825]	0.90276
Extended Chi2	[-0.2315 , 0.0196]	0.90276
FFD	[-0.4197 , -0.154]	0.90276
FUSINTER	[-0.27975 , -0.05635]	0.90276
HDD	[-0.40175 , -0.14605]	0.90276
HellingerBD	[-0.27905 , -0.05565]	0.90276
Heter-Disc	[0.1724 , 0.3427]	0.90276
ID3	[-0.4402 , -0.17315]	0.90276
IDD	[-0.33115 , -0.0341]	0.90276
Khiops	[-0.37715 , -0.1529]	0.90276
MDLP	[-0.0051 , 0.04755]	0.90276
Modified Chi2	[-0.4147 , -0.15245]	0.90276
MODL	[-0.32245 , -0.07265]	0.90276
MVD	[-0.07225 , 0.1043]	0.90276
PKID	[-0.4288 , -0.17315]	0.90276
UCPD	[-0.15135 , -0.01765]	0.90276
USD	[-0.40065 , -0.15365]	0.90276

Table 89: Confidence intervals for algorithm Zeta ($\alpha=0.90$)

$\alpha=0.95$	Confidence interval	Exact confidence
1R	[-0.19645 , 0.0362]	0.95024
Ameva	[-0.1708 , -0.005]	0.95024
Bayesian	[-0.3783 , -0.03655]	0.95024
CACC	[-0.1536 , -0.00015]	0.95024
CADD	[0.0913 , 0.43205]	0.95024
CAIM	[-0.13065 , -0.0166]	0.95024
Chi2	[-0.36165 , -0.06935]	0.95024
ChiMerge	[-0.1654 , -0.016]	0.95024
ClusterAnalysis	[-0.40005 , -0.1102]	0.95024
DIBD	[-0.0121 , 0.1113]	0.95024
Distance	[0.00965 , 0.07685]	0.95024
EqualFrequency	[-0.36785 , -0.0825]	0.95024
EqualWidth	[-0.38415 , -0.0677]	0.95024
Extended Chi2	[-0.2495 , 0.0277]	0.95024
FFD	[-0.43155 , -0.1288]	0.95024
FUSINTER	[-0.31085 , -0.04115]	0.95024
HDD	[-0.42095 , -0.1121]	0.95024
HellingerBD	[-0.3099 , -0.0449]	0.95024
Heter-Disc	[0.165 , 0.36155]	0.95024
ID3	[-0.44925 , -0.15325]	0.95024
IDD	[-0.36935 , -0.01265]	0.95024
Khiops	[-0.3841 , -0.07985]	0.95024
MDLP	[-0.0128 , 0.05465]	0.95024
Modified Chi2	[-0.4409 , -0.1167]	0.95024
MODL	[-0.3701 , -0.0696]	0.95024
MVD	[-0.1103 , 0.13105]	0.95024
PKID	[-0.44725 , -0.15315]	0.95024
UCPD	[-0.1735 , -0.00865]	0.95024
USD	[-0.41415 , -0.12245]	0.95024

Table 90: Confidence intervals for algorithm Zeta ($\alpha=0.95$)