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	139.0	681.0	≥ 0.2	1
Bayesian	331.5	488.5	≥ 0.2	1
CACC	205.0	575.0	≥ 0.2	1
CADD	726.0	94.0	7.19E-5	0.000168
CAIM	101.5	718.5	≥ 0.2	1
Chi2	177.0	603.0	≥ 0.2	1
ChiMerge	116.5	703.5	≥ 0.2	1
ClusterAnalysis	241.0	539.0	≥ 0.2	1
DIBD	418.0	402.0	≥ 0.2	0.909039
Distance	171.5	608.5	≥ 0.2	1
EqualFrequency	173.0	647.0	≥ 0.2	1
EqualWidth	199.5	620.5	≥ 0.2	1
Extended Chi2	308.0	472.0	≥ 0.2	1
FFD	159.0	661.0	≥ 0.2	1
FUSINTER	103.5	716.5	≥ 0.2	1
HDD	244.0	536.0	≥ 0.2	1
HellingerBD	206.0	614.0	≥ 0.2	1
Heter-Disc	571.5	248.5	0.18932	0.180888
ID3	254.0	526.0	≥ 0.2	1
IDD	302.5	517.5	≥ 0.2	1
Khiops	149.5	670.5	≥ 0.2	1
MDLP	200.5	619.5	≥ 0.2	1
Modified Chi2	147.0	633.0	≥ 0.2	1
MODL	147.0	673.0	≥ 0.2	1
MVD	474.0	346.0	≥ 0.2	1
PKID	136.0	684.0	≥ 0.2	1
UCPD	347.0	473.0	≥ 0.2	1
USD	240.5	539.5	≥ 0.2	1
Zeta	164.0	656.0	≥ 0.2	1

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

1.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
Ameva	[-0.06205 , -0.01615]	0.90276
Bayesian	[-0.03805 , 0.0047]	0.90276
CACC	[-0.05965 , -0.00765]	0.90276
CADD	[0.03615 , 0.1152]	0.90276
CAIM	[-0.0631 , -0.01635]	0.90276
Chi2	[-0.0672 , -0.0123]	0.90276
ChiMerge	[-0.0648 , -0.01675]	0.90276
ClusterAnalysis	[-0.06215 , -0.0047]	0.90276
DIBD	[-0.01655 , 0.01165]	0.90276
Distance	[-0.06045 , -0.0105]	0.90276
EqualFrequency	[-0.05925 , -0.01355]	0.90276
EqualWidth	[-0.06345 , -0.0127]	0.90276
Extended Chi2	[-0.05315 , 0.00635]	0.90276
FFD	[-0.06265 , -0.01595]	0.90276
FUSINTER	[-0.0665 , -0.0203]	0.90276
HDD	[-0.06625 , -0.00535]	0.90276
HellingerBD	[-0.05105 , -0.0066]	0.90276
Heter-Disc	[0.00525 , 0.0731]	0.90276
ID3	[-0.06765 , -0.00345]	0.90276
IDD	[-0.0222 , 0.00005]	0.90276
Khiops	[-0.0636 , -0.0131]	0.90276
MDLP	[-0.05995 , -0.00915]	0.90276
Modified Chi2	[-0.06795 , -0.0164]	0.90276
MODL	[-0.0668 , -0.0174]	0.90276
MVD	[-0.01215 , 0.03235]	0.90276
PKID	[-0.06615 , -0.01455]	0.90276
UCPD	[-0.05185 , 0.01195]	0.90276
USD	[-0.06725 , -0.00575]	0.90276
Zeta	[-0.06495 , -0.0162]	0.90276

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

α=0.95	Confidence interval	Exact confidence
Ameva	[-0.06925 , -0.01325]	0.95024
Bayesian	[-0.04735 , 0.00765]	0.95024
CACC	[-0.0627 , -0.00565]	0.95024
CADD	[0.03225 , 0.13015]	0.95024
CAIM	[-0.0712 , -0.0142]	0.95024
Chi2	[-0.0723 , -0.00925]	0.95024
ChiMerge	[-0.07365 , -0.0141]	0.95024
ClusterAnalysis	[-0.07105 , -0.0016]	0.95024
DIBD	[-0.02255 , 0.01385]	0.95024
Distance	[-0.066 , -0.00885]	0.95024
EqualFrequency	[-0.0655 , -0.01145]	0.95024
EqualWidth	[-0.07085 , -0.0102]	0.95024
Extended Chi2	[-0.0585 , 0.011]	0.95024
FFD	[-0.07225 , -0.0131]	0.95024
FUSINTER	[-0.07505 , -0.0174]	0.95024
HDD	[-0.07375 , -0.00125]	0.95024
HellingerBD	[-0.05515 , -0.0049]	0.95024
Heter-Disc	[0.00175 , 0.0826]	0.95024
ID3	[-0.07745 , 0.0006]	0.95024
IDD	[-0.02455 , 0.00165]	0.95024
Khiops	[-0.0685 , -0.01115]	0.95024
MDLP	[-0.068 , -0.00605]	0.95024
Modified Chi2	[-0.0747 , -0.01295]	0.95024
MODL	[-0.074 , -0.01415]	0.95024
MVD	[-0.017 , 0.04165]	0.95024
PKID	[-0.07305 , -0.0125]	0.95024
UCPD	[-0.0617 , 0.0156]	0.95024
USD	[-0.0759 , -0.0016]	0.95024
Zeta	[-0.07245 , -0.01345]	0.95024

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

2 Detailed results for Ameva

2.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	681.0	139.0	1.404E-4	0.000257
Bayesian	614.0	206.0	0.005332	0.005898
CACC	604.5	215.5	0.16555999999999998	0.158403
CADD	794.0	26.0	1.9444E-9	0
CAIM	409.0	374.0	≥ 0.2	1
Chi2	436.0	384.0	≥ 0.2	0.721695
ChiMerge	357.5	425.5	≥ 0.2	1
ClusterAnalysis	540.0	280.0	0.08172	0.079415
DIBD	695.5	124.5	1.9306E-4	0.00035
Distance	510.0	310.0	≥ 0.2	0.374617
EqualFrequency	435.0	385.0	≥ 0.2	0.731784
EqualWidth	410.0	370.0	≥ 0.2	0.774436
Extended Chi2	562.0	258.0	0.0408	0.040049
FFD	424.0	356.0	≥ 0.2	0.630199
FUSINTER	389.0	431.0	≥ 0.2	1
HDD	472.0	308.0	≥ 0.2	0.249614
HellingerBD	484.0	296.0	0.19424	0.186484
Heter-Disc	800.5	19.5	6.165999999999999E-10	0
ID3	489.5	330.5	≥ 0.2	0.28143
IDD	611.5	168.5	0.0015089	0.001913
Khiops	487.0	333.0	≥ 0.2	0.294294
MDLP	482.0	298.0	≥ 0.2	0.19676
Modified Chi2	398.5	381.5	≥ 0.2	0.899879
MODL	429.0	391.0	≥ 0.2	0.79324
MVD	704.0	116.0	2.844E-5	0.000075
PKID	422.0	398.0	≥ 0.2	0.866125
UCPD	618.0	202.0	0.004444	0.005071
USD	435.0	345.0	≥ 0.2	0.525459
Zeta	422.5	397.5	≥ 0.2	1

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

2.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[0.01615 , 0.06205]	0.90276
Bayesian	[0.0101 , 0.04365]	0.90276
CACC	[0.00295 , 0.013]	0.90276
CADD	[0.0862 , 0.19505]	0.90276
CAIM	[-0.0033 , 0.0049]	0.90276
Chi2	[-0.00525 , 0.00845]	0.90276
ChiMerge	[-0.00845 , 0.0048]	0.90276
ClusterAnalysis	[0.00045 , 0.02285]	0.90276
DIBD	[0.02145 , 0.0518]	0.90276
Distance	[-0.00075 , 0.0126]	0.90276
EqualFrequency	[-0.0066 , 0.00935]	0.90276
EqualWidth	[-0.0069 , 0.01135]	0.90276
Extended Chi2	[0.00175 , 0.03045]	0.90276
FFD	[-0.0049 , 0.0082]	0.90276
FUSINTER	[-0.00825 , 0.0043]	0.90276
HDD	[-0.0033 , 0.0159]	0.90276
HellingerBD	[-0.0016 , 0.02025]	0.90276
Heter-Disc	[0.061 , 0.1285]	0.90276
ID3	[-0.00485 , 0.0183]	0.90276
IDD	[0.00835 , 0.0472]	0.90276
Khiops	[-0.0026 , 0.01035]	0.90276
MDLP	[-0.0015 , 0.01305]	0.90276
Modified Chi2	[-0.00625 , 0.0066]	0.90276
MODL	[-0.00815 , 0.01065]	0.90276
MVD	[0.0275 , 0.07485]	0.90276
PKID	[-0.00825 , 0.00695]	0.90276
UCPD	[0.00995 , 0.03815]	0.90276
USD	[-0.0063 , 0.01365]	0.90276
Zeta	[-0.00505 , 0.00675]	0.90276

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

α=0.95	Confidence interval	Exact confidence
1R	[0.01325 , 0.06925]	0.95024
Bayesian	[0.00805 , 0.0478]	0.95024
CACC	[0.0019 , 0.01475]	0.95024
CADD	[0.0797 , 0.2035]	0.95024
CAIM	[-0.0039 , 0.0056]	0.95024
Chi2	[-0.00675 , 0.00975]	0.95024
ChiMerge	[-0.00955 , 0.0062]	0.95024
ClusterAnalysis	[-0.0014 , 0.0255]	0.95024
DIBD	[0.01685 , 0.05565]	0.95024
Distance	[-0.0028 , 0.01445]	0.95024
EqualFrequency	[-0.00765 , 0.01115]	0.95024
EqualWidth	[-0.01 , 0.01335]	0.95024
Extended Chi2	[0.00045 , 0.03575]	0.95024
FFD	[-0.0057 , 0.00945]	0.95024
FUSINTER	[-0.0094 , 0.0054]	0.95024
HDD	[-0.00525 , 0.0188]	0.95024
HellingerBD	[-0.0025 , 0.0224]	0.95024
Heter-Disc	[0.058 , 0.1327]	0.95024
ID3	[-0.00765 , 0.0207]	0.95024
IDD	[0.0068 , 0.05275]	0.95024
Khiops	[-0.0043 , 0.0114]	0.95024
MDLP	[-0.00265 , 0.01495]	0.95024
Modified Chi2	[-0.00815 , 0.0079]	0.95024
MODL	[-0.00975 , 0.0122]	0.95024
MVD	[0.02325 , 0.08075]	0.95024
PKID	[-0.01025 , 0.008]	0.95024
UCPD	[0.0071 , 0.0411]	0.95024
USD	[-0.00855 , 0.0157]	0.95024
Zeta	[-0.0061 , 0.0075]	0.95024

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

3 Detailed results for Bayesian

3.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	488.5	331.5	≥ 0.2	0.565342
Ameva	206.0	614.0	≥ 0.2	1
CACC	255.0	525.0	≥ 0.2	1
CADD	762.0	18.0	9.204E-10	0
CAIM	139.5	640.5	≥ 0.2	1
Chi2	204.0	616.0	≥ 0.2	1
ChiMerge	178.5	601.5	≥ 0.2	1
ClusterAnalysis	224.0	556.0	≥ 0.2	1
DIBD	424.5	395.5	≥ 0.2	1
Distance	246.0	574.0	≥ 0.2	1
EqualFrequency	199.0	621.0	≥ 0.2	1
EqualWidth	229.0	591.0	≥ 0.2	1
Extended Chi2	336.0	444.0	≥ 0.2	1
FFD	162.0	658.0	≥ 0.2	1
FUSINTER	108.0	712.0	≥ 0.2	1
HDD	259.0	521.0	≥ 0.2	1
HellingerBD	256.5	563.5	≥ 0.2	1
Heter-Disc	677.5	142.5	6.234000000000001E-4	0.00092
ID3	227.0	556.0	≥ 0.2	1
IDD	362.5	457.5	≥ 0.2	1
Khiops	190.0	630.0	≥ 0.2	1
MDLP	236.0	584.0	≥ 0.2	1
Modified Chi2	133.5	686.5	≥ 0.2	1
MODL	162.0	658.0	≥ 0.2	1
MVD	547.5	272.5	0.15907	0.153155
PKID	139.0	681.0	≥ 0.2	1
UCPD	369.0	451.0	≥ 0.2	1
USD	130.5	689.5	≥ 0.2	1
Zeta	207.5	572.5	≥ 0.2	1

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

3.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[-0.0047 , 0.03805]	0.90276
Ameva	[-0.04365 , -0.0101]	0.90276
CACC	[-0.02715 , -0.002]	0.90276
CADD	[0.07565 , 0.16675]	0.90276
CAIM	[-0.04655 , -0.0122]	0.90276
Chi2	[-0.0411 , -0.0076]	0.90276
ChiMerge	[-0.0474 , -0.01075]	0.90276
ClusterAnalysis	[-0.02675 , -0.00505]	0.90276
DIBD	[-0.0086 , 0.0146]	0.90276
Distance	[-0.03625 , -0.00505]	0.90276
EqualFrequency	[-0.04325 , -0.01255]	0.90276
EqualWidth	[-0.04165 , -0.00835]	0.90276
Extended Chi2	[-0.02685 , 0.0068]	0.90276
FFD	[-0.04655 , -0.0124]	0.90276
FUSINTER	[-0.04865 , -0.01705]	0.90276
HDD	[-0.02245 , -0.00075]	0.90276
HellingerBD	[-0.0296 , -0.00455]	0.90276
Heter-Disc	[0.0336 , 0.11525]	0.90276
ID3	[-0.0157 , -0.00265]	0.90276
IDD	[-0.01295 , 0.0094]	0.90276
Khiops	[-0.03075 , -0.007]	0.90276
MDLP	[-0.03625 , -0.00625]	0.90276
Modified Chi2	[-0.05 , -0.01075]	0.90276
MODL	[-0.03965 , -0.0101]	0.90276
MVD	[0.00365 , 0.0569]	0.90276
PKID	[-0.04995 , -0.01285]	0.90276
UCPD	[-0.0218 , 0.0107]	0.90276
USD	[-0.02175 , -0.0073]	0.90276
Zeta	[-0.0456 , -0.0092]	0.90276

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

α=0.95	Confidence interval	Exact confidence
1R	[-0.00765 , 0.04735]	0.95024
Ameva	[-0.0478 , -0.00805]	0.95024
CACC	[-0.02995 , 0.00025]	0.95024
CADD	[0.07065 , 0.175]	0.95024
CAIM	[-0.05005 , -0.0106]	0.95024
Chi2	[-0.04575 , -0.0051]	0.95024
ChiMerge	[-0.05135 , -0.00905]	0.95024
ClusterAnalysis	[-0.02955 , -0.00275]	0.95024
DIBD	[-0.0107 , 0.017]	0.95024
Distance	[-0.03965 , -0.00295]	0.95024
EqualFrequency	[-0.04665 , -0.0096]	0.95024
EqualWidth	[-0.04635 , -0.00495]	0.95024
Extended Chi2	[-0.03055 , 0.01005]	0.95024
FFD	[-0.0497 , -0.01015]	0.95024
FUSINTER	[-0.0538 , -0.01565]	0.95024
HDD	[-0.026 , 0.0007]	0.95024
HellingerBD	[-0.0322 , -0.00125]	0.95024
Heter-Disc	[0.02595 , 0.1186]	0.95024
ID3	[-0.01925 , -0.0013]	0.95024
IDD	[-0.015 , 0.0128]	0.95024
Khiops	[-0.03745 , -0.00525]	0.95024
MDLP	[-0.0413 , -0.004]	0.95024
Modified Chi2	[-0.0525 , -0.0093]	0.95024
MODL	[-0.04635 , -0.00845]	0.95024
MVD	[-0.00135 , 0.0675]	0.95024
PKID	[-0.0537 , -0.01135]	0.95024
UCPD	[-0.0248 , 0.0128]	0.95024
USD	[-0.02495 , -0.0063]	0.95024
Zeta	[-0.04905 , -0.00675]	0.95024

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

4 Detailed results for CACC

4.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	575.0	205.0	0.008948	0.009635
Ameva	215.5	604.5	≥ 0.2	1
Bayesian	525.0	255.0	0.06	0.058637
CADD	770.0	50.0	5.724E-8	0.000001
CAIM	264.0	556.0	≥ 0.2	1
Chi2	307.0	513.0	≥ 0.2	1
ChiMerge	291.0	529.0	≥ 0.2	1
ClusterAnalysis	414.0	406.0	≥ 0.2	1
DIBD	596.0	184.0	0.003362	0.003955
Distance	322.0	498.0	≥ 0.2	1
EqualFrequency	318.0	502.0	≥ 0.2	1
EqualWidth	340.0	440.0	≥ 0.2	1
Extended Chi2	451.0	329.0	≥ 0.2	0.390764
FFD	299.5	480.5	≥ 0.2	1
FUSINTER	201.5	578.5	≥ 0.2	1
HDD	425.5	394.5	≥ 0.2	1
HellingerBD	401.5	418.5	≥ 0.2	1
Heter-Disc	776.5	43.5	1.0097E-7	0.000002
ID3	416.0	364.0	≥ 0.2	0.711045
IDD	555.0	265.0	0.0514	0.050499
Khiops	312.0	468.0	≥ 0.2	1
MDLP	334.0	486.0	≥ 0.2	1
Modified Chi2	290.0	530.0	≥ 0.2	1
MODL	314.0	506.0	≥ 0.2	1
MVD	612.0	171.0	0.005618	0.006322
PKID	297.0	523.0	≥ 0.2	1
UCPD	492.0	288.0	0.15828	0.15189
USD	378.0	402.0	≥ 0.2	1
Zeta	265.5	514.5	≥ 0.2	1

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

4.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[0.00765 , 0.05965]	0.90276
Ameva	[-0.013 , -0.00295]	0.90276
Bayesian	[0.002 , 0.02715]	0.90276
CADD	[0.08025 , 0.1763]	0.90276
CAIM	[-0.0192 , -0.00045]	0.90276
Chi2	[-0.01585 , 0.00155]	0.90276
ChiMerge	[-0.0195 , 0.00015]	0.90276
ClusterAnalysis	[-0.0115 , 0.0132]	0.90276
DIBD	[0.01135 , 0.0424]	0.90276
Distance	[-0.013 , 0.00245]	0.90276
EqualFrequency	[-0.01855 , 0.00205]	0.90276
EqualWidth	[-0.01425 , 0.006]	0.90276
Extended Chi2	[-0.00425 , 0.0295]	0.90276
FFD	[-0.0187 , 0.00225]	0.90276
FUSINTER	[-0.01875 , -0.0032]	0.90276
HDD	[-0.00845 , 0.0132]	0.90276
HellingerBD	[-0.00855 , 0.0079]	0.90276
Heter-Disc	[0.0517 , 0.09835]	0.90276
ID3	[-0.00975 , 0.012]	0.90276
IDD	[0.00225 , 0.033]	0.90276
Khiops	[-0.012 , 0.00185]	0.90276
MDLP	[-0.011 , 0.0024]	0.90276
Modified Chi2	[-0.01705 , 0.0002]	0.90276
MODL	[-0.01395 , 0.0015]	0.90276
MVD	[0.01485 , 0.0635]	0.90276
PKID	[-0.01535 , 0.0006]	0.90276
UCPD	[-0.0028 , 0.0253]	0.90276
USD	[-0.01165 , 0.009]	0.90276
Zeta	[-0.02015 , -0.00045]	0.90276

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

α=0.95	Confidence interval	Exact confidence
1R	[0.00565 , 0.0627]	0.95024
Ameva	[-0.01475 , -0.0019]	0.95024
Bayesian	[-0.00025 , 0.02995]	0.95024
CADD	[0.07585 , 0.1829]	0.95024
CAIM	[-0.021 , 0]	0.95024
Chi2	[-0.018 , 0.0032]	0.95024
ChiMerge	[-0.02325 , 0.0016]	0.95024
ClusterAnalysis	[-0.0149 , 0.0169]	0.95024
DIBD	[0.00905 , 0.04665]	0.95024
Distance	[-0.01415 , 0.00415]	0.95024
EqualFrequency	[-0.0219 , 0.0039]	0.95024
EqualWidth	[-0.01695 , 0.0081]	0.95024
Extended Chi2	[-0.0059 , 0.0361]	0.95024
FFD	[-0.02295 , 0.003]	0.95024
FUSINTER	[-0.02035 , -0.00215]	0.95024
HDD	[-0.01135 , 0.0157]	0.95024
HellingerBD	[-0.01025 , 0.01065]	0.95024
Heter-Disc	[0.049 , 0.1045]	0.95024
ID3	[-0.01285 , 0.01395]	0.95024
IDD	[0.0001 , 0.0362]	0.95024
Khiops	[-0.01445 , 0.00355]	0.95024
MDLP	[-0.01255 , 0.0045]	0.95024
Modified Chi2	[-0.01945 , 0.00135]	0.95024
MODL	[-0.0164 , 0.00295]	0.95024
MVD	[0.01075 , 0.07185]	0.95024
PKID	[-0.0182 , 0.0018]	0.95024
UCPD	[-0.0051 , 0.0279]	0.95024
USD	[-0.0131 , 0.0111]	0.95024
Zeta	[-0.0229 , 0.00075]	0.95024

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

5 Detailed results for CADD

5.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	94.0	726.0	≥ 0.2	1
Ameva	26.0	794.0	≥ 0.2	1
Bayesian	18.0	762.0	≥ 0.2	1
CACC	50.0	770.0	≥ 0.2	1
CAIM	1.0	819.0	≥ 0.2	1
Chi2	34.0	786.0	≥ 0.2	1
ChiMerge	9.5	810.5	≥ 0.2	1
ClusterAnalysis	8.0	772.0	≥ 0.2	1
DIBD	100.0	720.0	≥ 0.2	1
Distance	57.0	763.0	≥ 0.2	1
EqualFrequency	26.5	793.5	≥ 0.2	1
EqualWidth	20.0	800.0	≥ 0.2	1
Extended Chi2	74.5	745.5	≥ 0.2	1
FFD	7.0	813.0	≥ 0.2	1
FUSINTER	3.0	817.0	≥ 0.2	1
HDD	9.0	811.0	≥ 0.2	1
HellingerBD	11.0	809.0	≥ 0.2	1
Heter-Disc	335.5	484.5	≥ 0.2	1
ID3	17.0	803.0	≥ 0.2	1
IDD	15.0	768.0	≥ 0.2	1
Khiops	13.0	807.0	≥ 0.2	1
MDLP	47.0	773.0	≥ 0.2	1
Modified Chi2	12.5	807.5	≥ 0.2	1
MODL	15.0	805.0	≥ 0.2	1
MVD	185.0	635.0	≥ 0.2	1
PKID	4.0	776.0	≥ 0.2	1
UCPD	63.0	757.0	≥ 0.2	1
USD	7.0	813.0	≥ 0.2	1
Zeta	0.0	820.0	≥ 0.2	1

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

5.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[-0.1152 , -0.03615]	0.90276
Ameva	[-0.19505 , -0.0862]	0.90276
Bayesian	[-0.16675 , -0.07565]	0.90276
CACC	[-0.1763 , -0.08025]	0.90276
CAIM	[-0.2102 , -0.09305]	0.90276
Chi2	[-0.2146 , -0.1017]	0.90276
ChiMerge	[-0.22185 , -0.0964]	0.90276
ClusterAnalysis	[-0.1895 , -0.0844]	0.90276
DIBD	[-0.15805 , -0.0489]	0.90276
Distance	[-0.19565 , -0.09595]	0.90276
EqualFrequency	[-0.2149 , -0.0938]	0.90276
EqualWidth	[-0.22915 , -0.09095]	0.90276
Extended Chi2	[-0.18185 , -0.07355]	0.90276
FFD	[-0.2182 , -0.09715]	0.90276
FUSINTER	[-0.2279 , -0.1045]	0.90276
HDD	[-0.1923 , -0.08555]	0.90276
HellingerBD	[-0.19215 , -0.08095]	0.90276
Heter-Disc	[-0.1039 , 0.00335]	0.90276
ID3	[-0.19245 , -0.087]	0.90276
IDD	[-0.1481 , -0.05785]	0.90276
Khiops	[-0.1996 , -0.09035]	0.90276
MDLP	[-0.1951 , -0.0961]	0.90276
Modified Chi2	[-0.23455 , -0.10165]	0.90276
MODL	[-0.19605 , -0.09765]	0.90276
MVD	[-0.09625 , -0.024]	0.90276
PKID	[-0.2244 , -0.10215]	0.90276
UCPD	[-0.18285 , -0.0788]	0.90276
USD	[-0.1987 , -0.08925]	0.90276
Zeta	[-0.21075 , -0.08685]	0.90276

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

α=0.95	Confidence interval	Exact confidence
1R	[-0.13015 , -0.03225]	0.95024
Ameva	[-0.2035 , -0.0797]	0.95024
Bayesian	[-0.175 , -0.07065]	0.95024
CACC	[-0.1829 , -0.07585]	0.95024
CAIM	[-0.23255 , -0.08415]	0.95024
Chi2	[-0.2291 , -0.08985]	0.95024
ChiMerge	[-0.2371 , -0.08935]	0.95024
ClusterAnalysis	[-0.2031 , -0.07695]	0.95024
DIBD	[-0.1658 , -0.04325]	0.95024
Distance	[-0.20795 , -0.08625]	0.95024
EqualFrequency	[-0.23115 , -0.087]	0.95024
EqualWidth	[-0.2419 , -0.08755]	0.95024
Extended Chi2	[-0.1889 , -0.0631]	0.95024
FFD	[-0.23315 , -0.08665]	0.95024
FUSINTER	[-0.24175 , -0.0948]	0.95024
HDD	[-0.2038 , -0.0767]	0.95024
HellingerBD	[-0.19985 , -0.0765]	0.95024
Heter-Disc	[-0.11505 , 0.00745]	0.95024
ID3	[-0.2097 , -0.0792]	0.95024
IDD	[-0.1554 , -0.0527]	0.95024
Khiops	[-0.2153 , -0.0821]	0.95024
MDLP	[-0.20455 , -0.0849]	0.95024
Modified Chi2	[-0.25315 , -0.08935]	0.95024
MODL	[-0.2032 , -0.08865]	0.95024
MVD	[-0.11125 , -0.0193]	0.95024
PKID	[-0.2395 , -0.0899]	0.95024
UCPD	[-0.1912 , -0.0713]	0.95024
USD	[-0.2169 , -0.0829]	0.95024
Zeta	[-0.22405 , -0.08015]	0.95024

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

6 Detailed results for CAIM

6.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	718.5	101.5	3.508E-5	0.000093
Ameva	374.0	409.0	≥ 0.2	1
Bayesian	640.5	139.5	2.748E-4	0.00045
CACC	556.0	264.0	0.12522	0.120051
CADD	819.0	1.0	3.638E-12	0
Chi2	454.5	365.5	≥ 0.2	0.544597
ChiMerge	378.5	441.5	≥ 0.2	1
ClusterAnalysis	520.5	259.5	0.06934	0.067056
DIBD	734.0	46.0	6.956E-8	0.000002
Distance	557.0	223.0	0.01895	0.019204
EqualFrequency	454.0	326.0	≥ 0.2	0.367232
EqualWidth	468.5	351.5	≥ 0.2	0.777334
Extended Chi2	564.0	216.0	0.014286	0.014886
FFD	421.5	358.5	≥ 0.2	0.654629
FUSINTER	342.5	477.5	≥ 0.2	1
HDD	503.0	317.0	≥ 0.2	1
HellingerBD	553.0	267.0	0.05482	0.053351
Heter-Disc	804.0	16.0	3.074E-10	0
ID3	478.0	302.0	≥ 0.2	0.216824
IDD	637.5	142.5	3.322E-4	0.000527
Khiops	435.0	345.0	≥ 0.2	0.524736
MDLP	547.0	273.0	0.16124	0.154503
Modified Chi2	391.0	389.0	≥ 0.2	0.983182
MODL	384.0	436.0	≥ 0.2	1
MVD	709.5	110.5	7.049E-5	0.000158
PKID	377.5	402.5	≥ 0.2	1
UCPD	653.5	166.5	0.00247	0.002967
USD	463.0	357.0	≥ 0.2	1
Zeta	437.5	382.5	≥ 0.2	1

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

6.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[0.01635 , 0.0631]	0.90276
Ameva	[-0.0049 , 0.0033]	0.90276
Bayesian	[0.0122 , 0.04655]	0.90276
CACC	[0.00045 , 0.0192]	0.90276
CADD	[0.09305 , 0.2102]	0.90276
Chi2	[-0.0039 , 0.00825]	0.90276
ChiMerge	[-0.0048 , 0.0035]	0.90276
ClusterAnalysis	[0.0015 , 0.0245]	0.90276
DIBD	[0.0228 , 0.0486]	0.90276
Distance	[0.0021 , 0.0111]	0.90276
EqualFrequency	[-0.0021 , 0.00765]	0.90276
EqualWidth	[-0.003 , 0.0114]	0.90276
Extended Chi2	[0.0035 , 0.0219]	0.90276
FFD	[-0.0036 , 0.00775]	0.90276
FUSINTER	[-0.00675 , 0.00295]	0.90276
HDD	[-0.00025 , 0.01315]	0.90276
HellingerBD	[0.00105 , 0.01885]	0.90276
Heter-Disc	[0.0626 , 0.14825]	0.90276
ID3	[-0.002 , 0.0174]	0.90276
IDD	[0.00705 , 0.05065]	0.90276
Khiops	[-0.0025 , 0.00765]	0.90276
MDLP	[0.0005 , 0.01445]	0.90276
Modified Chi2	[-0.0059 , 0.00545]	0.90276
MODL	[-0.00835 , 0.006]	0.90276
MVD	[0.02665 , 0.0833]	0.90276
PKID	[-0.0058 , 0.00455]	0.90276
UCPD	[0.01315 , 0.03925]	0.90276
USD	[-0.00365 , 0.0141]	0.90276
Zeta	[-0.00275 , 0.00545]	0.90276

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

α=0.95	Confidence interval	Exact confidence
1R	[0.0142 , 0.0712]	0.95024
Ameva	[-0.0056 , 0.0039]	0.95024
Bayesian	[0.0106 , 0.05005]	0.95024
CACC	[0 , 0.021]	0.95024
CADD	[0.08415 , 0.23255]	0.95024
Chi2	[-0.0057 , 0.0096]	0.95024
ChiMerge	[-0.00535 , 0.004]	0.95024
ClusterAnalysis	[-0.00165 , 0.02745]	0.95024
DIBD	[0.02065 , 0.0517]	0.95024
Distance	[0.00115 , 0.0126]	0.95024
EqualFrequency	[-0.00295 , 0.00865]	0.95024
EqualWidth	[-0.0041 , 0.01275]	0.95024
Extended Chi2	[0.00205 , 0.02645]	0.95024
FFD	[-0.0045 , 0.0093]	0.95024
FUSINTER	[-0.0079 , 0.004]	0.95024
HDD	[-0.0013 , 0.017]	0.95024
HellingerBD	[-0.0001 , 0.02165]	0.95024
Heter-Disc	[0.05885 , 0.1581]	0.95024
ID3	[-0.0032 , 0.0229]	0.95024
IDD	[0.0062 , 0.0543]	0.95024
Khiops	[-0.0037 , 0.00925]	0.95024
MDLP	[-0.0004 , 0.0173]	0.95024
Modified Chi2	[-0.0072 , 0.00625]	0.95024
MODL	[-0.0096 , 0.00765]	0.95024
MVD	[0.0235 , 0.09075]	0.95024
PKID	[-0.00675 , 0.0056]	0.95024
UCPD	[0.00995 , 0.0421]	0.95024
USD	[-0.0055 , 0.01695]	0.95024
Zeta	[-0.0033 , 0.00625]	0.95024

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

7 Detailed results for Chi2

7.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	603.0	177.0	0.002362	0.002888
Ameva	384.0	436.0	≥ 0.2	1
Bayesian	616.0	204.0	0.00487	0.005431
CACC	513.0	307.0	0.17008	0.163464
CADD	786.0	34.0	6.776E-9	0
CAIM	365.5	454.5	≥ 0.2	1
ChiMerge	407.0	413.0	≥ 0.2	1
ClusterAnalysis	486.0	294.0	0.18474	0.178091
DIBD	662.0	158.0	4.524E-4	0.000675
Distance	379.0	401.0	≥ 0.2	1
EqualFrequency	375.0	405.0	≥ 0.2	1
EqualWidth	365.0	455.0	≥ 0.2	1
Extended Chi2	588.0	192.0	0.004948	0.00544
FFD	390.5	389.5	≥ 0.2	0.988846
FUSINTER	311.0	472.0	≥ 0.2	1
HDD	441.5	338.5	≥ 0.2	0.466491
HellingerBD	428.5	351.5	≥ 0.2	0.584963
Heter-Disc	748.5	71.5	6.151E-7	0.000005
ID3	435.5	344.5	≥ 0.2	0.51946
IDD	549.0	231.0	0.02582	0.026026
Khiops	432.0	388.0	≥ 0.2	1
MDLP	401.0	419.0	≥ 0.2	1
Modified Chi2	333.5	449.5	≥ 0.2	1
MODL	403.5	416.5	≥ 0.2	1
MVD	685.0	135.0	1.0796E-4	0.000213
PKID	359.0	461.0	≥ 0.2	1
UCPD	593.0	187.0	0.003894	0.004444
USD	460.0	360.0	≥ 0.2	0.497274
Zeta	376.5	403.5	≥ 0.2	1

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

7.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[0.0123 , 0.0672]	0.90276
Ameva	[-0.00845 , 0.00525]	0.90276
Bayesian	[0.0076 , 0.0411]	0.90276
CACC	[-0.00155 , 0.01585]	0.90276
CADD	[0.1017 , 0.2146]	0.90276
CAIM	[-0.00825 , 0.0039]	0.90276
ChiMerge	[-0.0101 , 0.00825]	0.90276
ClusterAnalysis	[-0.002 , 0.0229]	0.90276
DIBD	[0.01625 , 0.0509]	0.90276
Distance	[-0.00835 , 0.00685]	0.90276
EqualFrequency	[-0.0095 , 0.00845]	0.90276
EqualWidth	[-0.01045 , 0.0071]	0.90276
Extended Chi2	[0.0056 , 0.0252]	0.90276
FFD	[-0.0073 , 0.00705]	0.90276
FUSINTER	[-0.01295 , 0.0021]	0.90276
HDD	[-0.00355 , 0.0121]	0.90276
HellingerBD	[-0.00535 , 0.01465]	0.90276
Heter-Disc	[0.0581 , 0.14045]	0.90276
ID3	[-0.0043 , 0.01665]	0.90276
IDD	[0.00455 , 0.046]	0.90276
Khiops	[-0.0044 , 0.00785]	0.90276
MDLP	[-0.0065 , 0.0075]	0.90276
Modified Chi2	[-0.00845 , 0.0028]	0.90276
MODL	[-0.0084 , 0.00875]	0.90276
MVD	[0.03415 , 0.0891]	0.90276
PKID	[-0.0075 , 0.00605]	0.90276
UCPD	[0.00775 , 0.0365]	0.90276
USD	[-0.00545 , 0.01235]	0.90276
Zeta	[-0.01115 , 0.01]	0.90276

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

α=0.95	Confidence interval	Exact confidence
1R	[0.00925 , 0.0723]	0.95024
Ameva	[-0.00975 , 0.00675]	0.95024
Bayesian	[0.0051 , 0.04575]	0.95024
CACC	[-0.0032 , 0.018]	0.95024
CADD	[0.08985 , 0.2291]	0.95024
CAIM	[-0.0096 , 0.0057]	0.95024
ChiMerge	[-0.0118 , 0.01035]	0.95024
ClusterAnalysis	[-0.0042 , 0.02585]	0.95024
DIBD	[0.01435 , 0.05595]	0.95024
Distance	[-0.0097 , 0.0089]	0.95024
EqualFrequency	[-0.0114 , 0.0101]	0.95024
EqualWidth	[-0.0118 , 0.0109]	0.95024
Extended Chi2	[0.00405 , 0.0283]	0.95024
FFD	[-0.00975 , 0.00885]	0.95024
FUSINTER	[-0.0144 , 0.00345]	0.95024
HDD	[-0.0047 , 0.01515]	0.95024
HellingerBD	[-0.0067 , 0.0166]	0.95024
Heter-Disc	[0.05225 , 0.1489]	0.95024
ID3	[-0.00585 , 0.0198]	0.95024
IDD	[0.0022 , 0.05]	0.95024
Khiops	[-0.0051 , 0.0092]	0.95024
MDLP	[-0.00785 , 0.00995]	0.95024
Modified Chi2	[-0.01045 , 0.0039]	0.95024
MODL	[-0.0098 , 0.0107]	0.95024
MVD	[0.02895 , 0.09725]	0.95024
PKID	[-0.00925 , 0.00715]	0.95024
UCPD	[0.00525 , 0.03975]	0.95024
USD	[-0.0065 , 0.01505]	0.95024
Zeta	[-0.0126 , 0.0122]	0.95024

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

8 Detailed results for ChiMerge

8.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	703.5	116.5	1.0977E-4	0.000218
Ameva	425.5	357.5	≥ 0.2	1
Bayesian	601.5	178.5	0.002551	0.00304
CACC	529.0	291.0	≥ 0.2	0.245118
CADD	810.5	9.5	6.912E-11	0
CAIM	441.5	378.5	≥ 0.2	1
Chi2	413.0	407.0	≥ 0.2	0.962478
ClusterAnalysis	484.0	296.0	0.19424	0.187254
DIBD	739.5	80.5	5.752E-6	0.000025
Distance	546.0	234.0	0.02888	0.028686
EqualFrequency	465.0	318.0	≥ 0.2	0.605273
EqualWidth	496.5	283.5	0.14035999999999998	0.134707
Extended Chi2	549.0	231.0	0.02582	0.025767
FFD	396.0	384.0	≥ 0.2	0.927473
FUSINTER	365.0	455.0	≥ 0.2	1
HDD	453.0	327.0	≥ 0.2	0.375541
HellingerBD	506.0	274.0	0.10756	0.104001
Heter-Disc	787.0	33.0	5.844E-9	0
ID3	439.0	341.0	≥ 0.2	0.489709
IDD	606.0	174.0	0.00202	0.002517
Khiops	447.0	333.0	≥ 0.2	0.420692
MDLP	502.5	317.5	≥ 0.2	0.436159
Modified Chi2	379.5	400.5	≥ 0.2	1
MODL	363.0	457.0	≥ 0.2	1
MVD	714.5	105.5	4.809E-5	0.000118
PKID	385.0	435.0	≥ 0.2	1
UCPD	636.0	184.0	0.0018628	0.002253
USD	442.0	378.0	≥ 0.2	1
Zeta	467.0	316.0	≥ 0.2	0.58635

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

8.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[0.01675 , 0.0648]	0.90276
Ameva	[-0.0048 , 0.00845]	0.90276
Bayesian	[0.01075 , 0.0474]	0.90276
CACC	[-0.00015 , 0.0195]	0.90276
CADD	[0.0964 , 0.22185]	0.90276
CAIM	[-0.0035 , 0.0048]	0.90276
Chi2	[-0.00825 , 0.0101]	0.90276
ClusterAnalysis	[-0.0022 , 0.0245]	0.90276
DIBD	[0.0207 , 0.0502]	0.90276
Distance	[0.00165 , 0.01625]	0.90276
EqualFrequency	[-0.0023 , 0.00895]	0.90276
EqualWidth	[-0.0007 , 0.01215]	0.90276
Extended Chi2	[0.00295 , 0.0243]	0.90276
FFD	[-0.00685 , 0.00835]	0.90276
FUSINTER	[-0.00735 , 0.00355]	0.90276
HDD	[-0.0043 , 0.01345]	0.90276
HellingerBD	[-0.00015 , 0.0182]	0.90276
Heter-Disc	[0.0622 , 0.15245]	0.90276
ID3	[-0.005 , 0.0159]	0.90276
IDD	[0.00585 , 0.05]	0.90276
Khiops	[-0.00385 , 0.01025]	0.90276
MDLP	[-0.00115 , 0.01585]	0.90276
Modified Chi2	[-0.0088 , 0.00515]	0.90276
MODL	[-0.00815 , 0.00505]	0.90276
MVD	[0.02735 , 0.0807]	0.90276
PKID	[-0.0078 , 0.00535]	0.90276
UCPD	[0.0111 , 0.04005]	0.90276
USD	[-0.0055 , 0.01205]	0.90276
Zeta	[-0.0023 , 0.0091]	0.90276

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

α=0.95	Confidence interval	Exact confidence
1R	[0.0141 , 0.07365]	0.95024
Ameva	[-0.0062 , 0.00955]	0.95024
Bayesian	[0.00905 , 0.05135]	0.95024
CACC	[-0.0016 , 0.02325]	0.95024
CADD	[0.08935 , 0.2371]	0.95024
CAIM	[-0.004 , 0.00535]	0.95024
Chi2	[-0.01035 , 0.0118]	0.95024
ClusterAnalysis	[-0.00465 , 0.0279]	0.95024
DIBD	[0.01945 , 0.054]	0.95024
Distance	[0.0007 , 0.01735]	0.95024
EqualFrequency	[-0.00325 , 0.0103]	0.95024
EqualWidth	[-0.00205 , 0.0136]	0.95024
Extended Chi2	[0.0016 , 0.02725]	0.95024
FFD	[-0.00815 , 0.00985]	0.95024
FUSINTER	[-0.00875 , 0.0047]	0.95024
HDD	[-0.0074 , 0.0158]	0.95024
HellingerBD	[-0.00185 , 0.02015]	0.95024
Heter-Disc	[0.0582 , 0.16305]	0.95024
ID3	[-0.00745 , 0.0194]	0.95024
IDD	[0.00465 , 0.0543]	0.95024
Khiops	[-0.00485 , 0.0115]	0.95024
MDLP	[-0.0016 , 0.0206]	0.95024
Modified Chi2	[-0.0104 , 0.0061]	0.95024
MODL	[-0.0093 , 0.00695]	0.95024
MVD	[0.0248 , 0.08985]	0.95024
PKID	[-0.0093 , 0.00645]	0.95024
UCPD	[0.0081 , 0.0428]	0.95024
USD	[-0.0081 , 0.01415]	0.95024
Zeta	[-0.0032 , 0.01]	0.95024

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

9 Detailed results for ClusterAnalysis

9.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	539.0	241.0	0.03724	0.036954
Ameva	280.0	540.0	≥ 0.2	1
Bayesian	556.0	224.0	0.019712	0.020152
CACC	406.0	414.0	≥ 0.2	1
CADD	772.0	8.0	9.094E-11	0
CAIM	259.5	520.5	≥ 0.2	1
Chi2	294.0	486.0	≥ 0.2	1
ChiMerge	296.0	484.0	≥ 0.2	1
DIBD	582.0	238.0	0.019988	0.020415
Distance	355.0	425.0	≥ 0.2	1
EqualFrequency	306.5	513.5	≥ 0.2	1
EqualWidth	319.0	461.0	≥ 0.2	1
Extended Chi2	417.0	403.0	≥ 0.2	1
FFD	247.5	572.5	≥ 0.2	1
FUSINTER	216.0	564.0	≥ 0.2	1
HDD	418.0	402.0	≥ 0.2	1
HellingerBD	359.0	421.0	≥ 0.2	1
Heter-Disc	703.0	77.0	2.09E-6	0.000012
ID3	429.0	354.0	≥ 0.2	1
IDD	474.0	306.0	≥ 0.2	0.23832
Khiops	344.5	475.5	≥ 0.2	1
MDLP	350.0	430.0	≥ 0.2	1
Modified Chi2	238.5	541.5	≥ 0.2	1
MODL	332.5	487.5	≥ 0.2	1
MVD	603.0	177.0	0.002362	0.00284
PKID	236.5	583.5	≥ 0.2	1
UCPD	500.5	279.5	0.12575	0.120082
USD	330.0	453.0	≥ 0.2	1
Zeta	287.5	532.5	≥ 0.2	1

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

9.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[0.0047 , 0.06215]	0.90276
Ameva	[-0.02285 , -0.00045]	0.90276
Bayesian	[0.00505 , 0.02675]	0.90276
CACC	[-0.0132 , 0.0115]	0.90276
CADD	[0.0844 , 0.1895]	0.90276
CAIM	[-0.0245 , -0.0015]	0.90276
Chi2	[-0.0229 , 0.002]	0.90276
ChiMerge	[-0.0245 , 0.0022]	0.90276
DIBD	[0.0082 , 0.04205]	0.90276
Distance	[-0.02075 , 0.012]	0.90276
EqualFrequency	[-0.018 , 0.00155]	0.90276
EqualWidth	[-0.01805 , 0.0034]	0.90276
Extended Chi2	[-0.01075 , 0.01505]	0.90276
FFD	[-0.0199 , -0.0023]	0.90276
FUSINTER	[-0.02605 , -0.00425]	0.90276
HDD	[-0.01085 , 0.01005]	0.90276
HellingerBD	[-0.01315 , 0.00795]	0.90276
Heter-Disc	[0.05135 , 0.12115]	0.90276
ID3	[-0.00715 , 0.0085]	0.90276
IDD	[-0.0047 , 0.0286]	0.90276
Khiops	[-0.01645 , 0.00475]	0.90276
MDLP	[-0.0202 , 0.0086]	0.90276
Modified Chi2	[-0.02245 , -0.0021]	0.90276
MODL	[-0.0246 , 0.00425]	0.90276
MVD	[0.02265 , 0.07545]	0.90276
PKID	[-0.02645 , -0.0043]	0.90276
UCPD	[-0.0011 , 0.02275]	0.90276
USD	[-0.0106 , 0.0039]	0.90276
Zeta	[-0.0221 , 0.0002]	0.90276

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

α=0.95	Confidence interval	Exact confidence
1R	[0.0016 , 0.07105]	0.95024
Ameva	[-0.0255 , 0.0014]	0.95024
Bayesian	[0.00275 , 0.02955]	0.95024
CACC	[-0.0169 , 0.0149]	0.95024
CADD	[0.07695 , 0.2031]	0.95024
CAIM	[-0.02745 , 0.00165]	0.95024
Chi2	[-0.02585 , 0.0042]	0.95024
ChiMerge	[-0.0279 , 0.00465]	0.95024
DIBD	[0.0043 , 0.0461]	0.95024
Distance	[-0.0236 , 0.0147]	0.95024
EqualFrequency	[-0.02045 , 0.0037]	0.95024
EqualWidth	[-0.02105 , 0.0051]	0.95024
Extended Chi2	[-0.01325 , 0.01925]	0.95024
FFD	[-0.02185 , -0.0007]	0.95024
FUSINTER	[-0.0278 , -0.0028]	0.95024
HDD	[-0.01375 , 0.01235]	0.95024
HellingerBD	[-0.015 , 0.01035]	0.95024
Heter-Disc	[0.0457 , 0.13245]	0.95024
ID3	[-0.0092 , 0.00985]	0.95024
IDD	[-0.0079 , 0.03525]	0.95024
Khiops	[-0.01885 , 0.0069]	0.95024
MDLP	[-0.02315 , 0.0109]	0.95024
Modified Chi2	[-0.0257 , -0.00095]	0.95024
MODL	[-0.02745 , 0.0059]	0.95024
MVD	[0.0162 , 0.0814]	0.95024
PKID	[-0.02865 , -0.0027]	0.95024
UCPD	[-0.00285 , 0.0249]	0.95024
USD	[-0.01305 , 0.00515]	0.95024
Zeta	[-0.0247 , 0.0026]	0.95024

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

10 Detailed results for DIBD

10.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	402.0	418.0	≥ 0.2	1
Ameva	124.5	695.5	≥ 0.2	1
Bayesian	395.5	424.5	≥ 0.2	1
CACC	184.0	596.0	≥ 0.2	1
CADD	720.0	100.0	8.152E-6	0.00003
CAIM	46.0	734.0	≥ 0.2	1
Chi2	158.0	662.0	≥ 0.2	1
ChiMerge	80.5	739.5	≥ 0.2	1
ClusterAnalysis	238.0	582.0	≥ 0.2	1
Distance	161.0	619.0	≥ 0.2	1
EqualFrequency	104.0	676.0	≥ 0.2	1
EqualWidth	163.0	657.0	≥ 0.2	1
Extended Chi2	270.0	550.0	≥ 0.2	1
FFD	75.0	705.0	≥ 0.2	1
FUSINTER	64.0	716.0	≥ 0.2	1
HDD	220.0	560.0	≥ 0.2	1
HellingerBD	119.0	661.0	≥ 0.2	1
Heter-Disc	641.0	139.0	2.66E-4	0.000449
ID3	240.0	540.0	≥ 0.2	1
IDD	268.0	512.0	≥ 0.2	1
Khiops	95.0	685.0	≥ 0.2	1
MDLP	148.0	632.0	≥ 0.2	1
Modified Chi2	78.0	702.0	≥ 0.2	1
MODL	105.0	715.0	≥ 0.2	1
MVD	490.0	330.0	≥ 0.2	0.279242
PKID	70.0	710.0	≥ 0.2	1
UCPD	316.0	504.0	≥ 0.2	1
USD	212.5	607.5	≥ 0.2	1
Zeta	96.0	684.0	≥ 0.2	1

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

10.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[-0.01165 , 0.01655]	0.90276
Ameva	[-0.0518 , -0.02145]	0.90276
Bayesian	[-0.0146 , 0.0086]	0.90276
CACC	[-0.0424 , -0.01135]	0.90276
CADD	[0.0489 , 0.15805]	0.90276
CAIM	[-0.0486 , -0.0228]	0.90276
Chi2	[-0.0509 , -0.01625]	0.90276
ChiMerge	[-0.0502 , -0.0207]	0.90276
ClusterAnalysis	[-0.04205 , -0.0082]	0.90276
Distance	[-0.0424 , -0.0122]	0.90276
EqualFrequency	[-0.0492 , -0.0214]	0.90276
EqualWidth	[-0.05435 , -0.01645]	0.90276
Extended Chi2	[-0.0388 , -0.0026]	0.90276
FFD	[-0.05395 , -0.0244]	0.90276
FUSINTER	[-0.05895 , -0.02675]	0.90276
HDD	[-0.0425 , -0.0082]	0.90276
HellingerBD	[-0.0437 , -0.01645]	0.90276
Heter-Disc	[0.01925 , 0.07025]	0.90276
ID3	[-0.04315 , -0.0055]	0.90276
IDD	[-0.02055 , -0.0002]	0.90276
Khiops	[-0.05255 , -0.0187]	0.90276
MDLP	[-0.0437 , -0.0135]	0.90276
Modified Chi2	[-0.05295 , -0.0206]	0.90276
MODL	[-0.0523 , -0.02335]	0.90276
MVD	[-0.0066 , 0.04225]	0.90276
PKID	[-0.0594 , -0.02545]	0.90276
UCPD	[-0.02495 , 0.00275]	0.90276
USD	[-0.04615 , -0.011]	0.90276
Zeta	[-0.04935 , -0.0198]	0.90276

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

α=0.95	Confidence interval	Exact confidence
1R	[-0.01385 , 0.02255]	0.95024
Ameva	[-0.05565 , -0.01685]	0.95024
Bayesian	[-0.017 , 0.0107]	0.95024
CACC	[-0.04665 , -0.00905]	0.95024
CADD	[0.04325 , 0.1658]	0.95024
CAIM	[-0.0517 , -0.02065]	0.95024
Chi2	[-0.05595 , -0.01435]	0.95024
ChiMerge	[-0.054 , -0.01945]	0.95024
ClusterAnalysis	[-0.0461 , -0.0043]	0.95024
Distance	[-0.0461 , -0.01015]	0.95024
EqualFrequency	[-0.05315 , -0.0193]	0.95024
EqualWidth	[-0.0582 , -0.0133]	0.95024
Extended Chi2	[-0.0416 , 0.0012]	0.95024
FFD	[-0.059 , -0.0221]	0.95024
FUSINTER	[-0.06285 , -0.02485]	0.95024
HDD	[-0.0475 , -0.00505]	0.95024
HellingerBD	[-0.04775 , -0.0151]	0.95024
Heter-Disc	[0.01555 , 0.0859]	0.95024
ID3	[-0.04775 , -0.0028]	0.95024
IDD	[-0.023 , 0.0021]	0.95024
Khiops	[-0.05835 , -0.01625]	0.95024
MDLP	[-0.04655 , -0.01105]	0.95024
Modified Chi2	[-0.05855 , -0.01875]	0.95024
MODL	[-0.05545 , -0.0211]	0.95024
MVD	[-0.01125 , 0.0495]	0.95024
PKID	[-0.0634 , -0.02275]	0.95024
UCPD	[-0.0272 , 0.0049]	0.95024
USD	[-0.05235 , -0.00765]	0.95024
Zeta	[-0.054 , -0.0181]	0.95024

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

11 Detailed results for Distance

11.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	608.5	171.5	0.0017718	0.002202
Ameva	310.0	510.0	≥ 0.2	1
Bayesian	574.0	246.0	0.02686	0.027029
CACC	498.0	322.0	≥ 0.2	0.476525
CADD	763.0	57.0	1.3044E-7	0.000002
CAIM	223.0	557.0	≥ 0.2	1
Chi2	401.0	379.0	≥ 0.2	0.872501
ChiMerge	234.0	546.0	≥ 0.2	1
ClusterAnalysis	425.0	355.0	≥ 0.2	0.620316
DIBD	619.0	161.0	9.974E-4	0.001335
EqualFrequency	355.5	464.5	≥ 0.2	1
EqualWidth	356.0	464.0	≥ 0.2	1
Extended Chi2	512.0	308.0	0.17436	0.168286
FFD	307.0	513.0	≥ 0.2	1
FUSINTER	264.0	556.0	≥ 0.2	1
HDD	411.0	369.0	≥ 0.2	0.764152
HellingerBD	440.0	380.0	≥ 0.2	0.681836
Heter-Disc	737.0	83.0	1.8586E-6	0.00001
ID3	434.0	386.0	≥ 0.2	0.74192
IDD	556.0	264.0	0.04976	0.048936
Khiops	371.0	412.0	≥ 0.2	1
MDLP	374.0	409.0	≥ 0.2	1
Modified Chi2	381.0	439.0	≥ 0.2	1
MODL	289.0	491.0	≥ 0.2	1
MVD	586.5	233.5	0.016832	0.017167
PKID	344.0	476.0	≥ 0.2	1
UCPD	517.0	263.0	0.07738	0.075197
USD	400.5	379.5	≥ 0.2	0.877789
Zeta	270.0	510.0	≥ 0.2	1

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

11.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[0.0105 , 0.06045]	0.90276
Ameva	[-0.0126 , 0.00075]	0.90276
Bayesian	[0.00505 , 0.03625]	0.90276
CACC	[-0.00245 , 0.013]	0.90276
CADD	[0.09595 , 0.19565]	0.90276
CAIM	[-0.0111 , -0.0021]	0.90276
Chi2	[-0.00685 , 0.00835]	0.90276
ChiMerge	[-0.01625 , -0.00165]	0.90276
ClusterAnalysis	[-0.012 , 0.02075]	0.90276
DIBD	[0.0122 , 0.0424]	0.90276
EqualFrequency	[-0.0121 , 0.00355]	0.90276
EqualWidth	[-0.00875 , 0.00425]	0.90276
Extended Chi2	[-0.0022 , 0.0221]	0.90276
FFD	[-0.0163 , 0.00145]	0.90276
FUSINTER	[-0.0149 , -0.00095]	0.90276
HDD	[-0.00845 , 0.01455]	0.90276
HellingerBD	[-0.0058 , 0.01325]	0.90276
Heter-Disc	[0.0531 , 0.13215]	0.90276
ID3	[-0.0098 , 0.01955]	0.90276
IDD	[0.00165 , 0.04315]	0.90276
Khiops	[-0.009 , 0.0074]	0.90276
MDLP	[-0.004 , 0.00335]	0.90276
Modified Chi2	[-0.01115 , 0.0047]	0.90276
MODL	[-0.01585 , 0.00125]	0.90276
MVD	[0.01075 , 0.08145]	0.90276
PKID	[-0.01555 , 0.0029]	0.90276
UCPD	[0.0009 , 0.031]	0.90276
USD	[-0.01305 , 0.0148]	0.90276
Zeta	[-0.015 , -0.0004]	0.90276

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

α=0.95	Confidence interval	Exact confidence
1R	[0.00885 , 0.066]	0.95024
Ameva	[-0.01445 , 0.0028]	0.95024
Bayesian	[0.00295 , 0.03965]	0.95024
CACC	[-0.00415 , 0.01415]	0.95024
CADD	[0.08625 , 0.20795]	0.95024
CAIM	[-0.0126 , -0.00115]	0.95024
Chi2	[-0.0089 , 0.0097]	0.95024
ChiMerge	[-0.01735 , -0.0007]	0.95024
ClusterAnalysis	[-0.0147 , 0.0236]	0.95024
DIBD	[0.01015 , 0.0461]	0.95024
EqualFrequency	[-0.01425 , 0.005]	0.95024
EqualWidth	[-0.0101 , 0.00625]	0.95024
Extended Chi2	[-0.0039 , 0.02565]	0.95024
FFD	[-0.0198 , 0.00305]	0.95024
FUSINTER	[-0.0168 , -0.00005]	0.95024
HDD	[-0.01105 , 0.0177]	0.95024
HellingerBD	[-0.00765 , 0.01585]	0.95024
Heter-Disc	[0.04635 , 0.13785]	0.95024
ID3	[-0.0131 , 0.0229]	0.95024
IDD	[0 , 0.04865]	0.95024
Khiops	[-0.0105 , 0.0091]	0.95024
MDLP	[-0.0047 , 0.00375]	0.95024
Modified Chi2	[-0.0132 , 0.0057]	0.95024
MODL	[-0.0179 , 0.00245]	0.95024
MVD	[0.0067 , 0.0904]	0.95024
PKID	[-0.02095 , 0.00405]	0.95024
UCPD	[-0.00145 , 0.0346]	0.95024
USD	[-0.01635 , 0.0174]	0.95024
Zeta	[-0.0163 , 0.00135]	0.95024

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

12 Detailed results for EqualFrequency

12.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	647.0	173.0	0.0010488	0.001411
Ameva	385.0	435.0	≥ 0.2	1
Bayesian	621.0	199.0	0.003868	0.004471
CACC	502.0	318.0	≥ 0.2	0.21375
CADD	793.5	26.5	8.476E-9	0.000001
CAIM	326.0	454.0	≥ 0.2	1
Chi2	405.0	375.0	≥ 0.2	0.828752
ChiMerge	318.0	465.0	≥ 0.2	1
ClusterAnalysis	513.5	306.5	≥ 0.2	0.349584
DIBD	676.0	104.0	2.198E-5	0.000064
Distance	464.5	355.5	≥ 0.2	0.45823
EqualWidth	363.5	416.5	≥ 0.2	1
Extended Chi2	533.5	246.5	0.04513	0.044111
FFD	332.5	487.5	≥ 0.2	1
FUSINTER	271.5	508.5	≥ 0.2	1
HDD	467.0	313.0	≥ 0.2	0.279469
HellingerBD	542.0	241.0	0.09736	0.093398
Heter-Disc	772.5	47.5	1.681E-7	0.000003
ID3	506.0	314.0	≥ 0.2	0.759333
IDD	574.0	246.0	0.02686	0.027029
Khiops	467.0	353.0	≥ 0.2	0.793695
MDLP	453.5	366.5	≥ 0.2	0.947872
Modified Chi2	377.0	403.0	≥ 0.2	1
MODL	373.5	446.5	≥ 0.2	1
MVD	619.0	161.0	9.974E-4	0.001335
PKID	382.0	438.0	≥ 0.2	1
UCPD	650.5	169.5	8.673999999999999E-4	0.001175
USD	425.0	355.0	≥ 0.2	0.619093
Zeta	395.5	424.5	≥ 0.2	1

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

12.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[0.01355 , 0.05925]	0.90276
Ameva	[-0.00935 , 0.0066]	0.90276
Bayesian	[0.01255 , 0.04325]	0.90276
CACC	[-0.00205 , 0.01855]	0.90276
CADD	[0.0938 , 0.2149]	0.90276
CAIM	[-0.00765 , 0.0021]	0.90276
Chi2	[-0.00845 , 0.0095]	0.90276
ChiMerge	[-0.00895 , 0.0023]	0.90276
ClusterAnalysis	[-0.00155 , 0.018]	0.90276
DIBD	[0.0214 , 0.0492]	0.90276
Distance	[-0.00355 , 0.0121]	0.90276
EqualWidth	[-0.0068 , 0.00395]	0.90276
Extended Chi2	[0.0017 , 0.02075]	0.90276
FFD	[-0.0101 , 0.00155]	0.90276
FUSINTER	[-0.01035 , -0.00005]	0.90276
HDD	[-0.0033 , 0.01605]	0.90276
HellingerBD	[0.0013 , 0.0148]	0.90276
Heter-Disc	[0.0615 , 0.14095]	0.90276
ID3	[-0.00215 , 0.02195]	0.90276
IDD	[0.00365 , 0.0463]	0.90276
Khiops	[-0.00295 , 0.0082]	0.90276
MDLP	[-0.0041 , 0.01055]	0.90276
Modified Chi2	[-0.0097 , 0.00525]	0.90276
MODL	[-0.01245 , 0.00845]	0.90276
MVD	[0.01925 , 0.08335]	0.90276
PKID	[-0.01285 , 0.0018]	0.90276
UCPD	[0.0116 , 0.0391]	0.90276
USD	[-0.00685 , 0.01445]	0.90276
Zeta	[-0.009 , 0.00735]	0.90276

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

α=0.95	Confidence interval	Exact confidence
1R	[0.01145 , 0.0655]	0.95024
Ameva	[-0.01115 , 0.00765]	0.95024
Bayesian	[0.0096 , 0.04665]	0.95024
CACC	[-0.0039 , 0.0219]	0.95024
CADD	[0.087 , 0.23115]	0.95024
CAIM	[-0.00865 , 0.00295]	0.95024
Chi2	[-0.0101 , 0.0114]	0.95024
ChiMerge	[-0.0103 , 0.00325]	0.95024
ClusterAnalysis	[-0.0037 , 0.02045]	0.95024
DIBD	[0.0193 , 0.05315]	0.95024
Distance	[-0.005 , 0.01425]	0.95024
EqualWidth	[-0.0078 , 0.0051]	0.95024
Extended Chi2	[0.00025 , 0.02275]	0.95024
FFD	[-0.0116 , 0.0023]	0.95024
FUSINTER	[-0.0128 , 0.00055]	0.95024
HDD	[-0.00485 , 0.021]	0.95024
HellingerBD	[0.00025 , 0.0169]	0.95024
Heter-Disc	[0.0555 , 0.15125]	0.95024
ID3	[-0.00615 , 0.02565]	0.95024
IDD	[0.00165 , 0.0503]	0.95024
Khiops	[-0.00395 , 0.01035]	0.95024
MDLP	[-0.0053 , 0.0125]	0.95024
Modified Chi2	[-0.0122 , 0.00615]	0.95024
MODL	[-0.01475 , 0.00965]	0.95024
MVD	[0.0147 , 0.08975]	0.95024
PKID	[-0.0143 , 0.00225]	0.95024
UCPD	[0.00885 , 0.04115]	0.95024
USD	[-0.00975 , 0.016]	0.95024
Zeta	[-0.0102 , 0.00855]	0.95024

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

13 Detailed results for EqualWidth

13.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	620.5	199.5	0.00396	0.004499
Ameva	370.0	410.0	≥ 0.2	1
Bayesian	591.0	229.0	0.0399	0.039107
CACC	440.0	340.0	≥ 0.2	0.48098
CADD	800.0	20.0	6.748E-10	0
CAIM	351.5	468.5	≥ 0.2	1
Chi2	455.0	365.0	≥ 0.2	0.540135
ChiMerge	283.5	496.5	≥ 0.2	1
ClusterAnalysis	461.0	319.0	≥ 0.2	0.318385
DIBD	657.0	163.0	6.032E-4	0.000879
Distance	464.0	356.0	≥ 0.2	0.463081
EqualFrequency	416.5	363.5	≥ 0.2	0.705353
Extended Chi2	574.0	206.0	0.009348	0.00952
FFD	364.5	455.5	≥ 0.2	1
FUSINTER	300.0	520.0	≥ 0.2	1
HDD	452.0	328.0	≥ 0.2	0.383106
HellingerBD	476.0	304.0	≥ 0.2	0.227391
Heter-Disc	763.0	57.0	1.3044E-7	0.000002
ID3	438.0	345.0	≥ 0.2	0.915738
IDD	554.5	265.5	0.13076	0.125333
Khiops	428.0	392.0	≥ 0.2	0.803297
MDLP	412.0	368.0	≥ 0.2	0.752696
Modified Chi2	337.0	443.0	≥ 0.2	1
MODL	336.0	484.0	≥ 0.2	1
MVD	667.5	152.5	3.266E-4	0.000502
PKID	350.5	469.5	≥ 0.2	1
UCPD	584.5	195.5	0.005830999999999999	0.006411
USD	440.0	340.0	≥ 0.2	0.48098
Zeta	374.5	445.5	≥ 0.2	1

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

13.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[0.0127 , 0.06345]	0.90276
Ameva	[-0.01135 , 0.0069]	0.90276
Bayesian	[0.00835 , 0.04165]	0.90276
CACC	[-0.006 , 0.01425]	0.90276
CADD	[0.09095 , 0.22915]	0.90276
CAIM	[-0.0114 , 0.003]	0.90276
Chi2	[-0.0071 , 0.01045]	0.90276
ChiMerge	[-0.01215 , 0.0007]	0.90276
ClusterAnalysis	[-0.0034 , 0.01805]	0.90276
DIBD	[0.01645 , 0.05435]	0.90276
Distance	[-0.00425 , 0.00875]	0.90276
EqualFrequency	[-0.00395 , 0.0068]	0.90276
Extended Chi2	[0.00435 , 0.0252]	0.90276
FFD	[-0.00895 , 0.00365]	0.90276
FUSINTER	[-0.0141 , 0.0005]	0.90276
HDD	[-0.005 , 0.01485]	0.90276
HellingerBD	[-0.00085 , 0.00955]	0.90276
Heter-Disc	[0.0588 , 0.14595]	0.90276
ID3	[-0.0038 , 0.015]	0.90276
IDD	[0.0024 , 0.04525]	0.90276
Khiops	[-0.00475 , 0.0084]	0.90276
MDLP	[-0.00575 , 0.00845]	0.90276
Modified Chi2	[-0.0141 , 0.004]	0.90276
MODL	[-0.0136 , 0.00765]	0.90276
MVD	[0.0255 , 0.09025]	0.90276
PKID	[-0.01465 , 0.00335]	0.90276
UCPD	[0.0077 , 0.0362]	0.90276
USD	[-0.00555 , 0.01405]	0.90276
Zeta	[-0.00775 , 0.005]	0.90276

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

α=0.95	Confidence interval	Exact confidence
1R	[0.0102 , 0.07085]	0.95024
Ameva	[-0.01335 , 0.01]	0.95024
Bayesian	[0.00495 , 0.04635]	0.95024
CACC	[-0.0081 , 0.01695]	0.95024
CADD	[0.08755 , 0.2419]	0.95024
CAIM	[-0.01275 , 0.0041]	0.95024
Chi2	[-0.0109 , 0.0118]	0.95024
ChiMerge	[-0.0136 , 0.00205]	0.95024
ClusterAnalysis	[-0.0051 , 0.02105]	0.95024
DIBD	[0.0133 , 0.0582]	0.95024
Distance	[-0.00625 , 0.0101]	0.95024
EqualFrequency	[-0.0051 , 0.0078]	0.95024
Extended Chi2	[0.0033 , 0.0283]	0.95024
FFD	[-0.012 , 0.00475]	0.95024
FUSINTER	[-0.01535 , 0.0018]	0.95024
HDD	[-0.0078 , 0.01805]	0.95024
HellingerBD	[-0.00165 , 0.01215]	0.95024
Heter-Disc	[0.0552 , 0.15375]	0.95024
ID3	[-0.0064 , 0.01955]	0.95024
IDD	[0 , 0.0509]	0.95024
Khiops	[-0.00645 , 0.00935]	0.95024
MDLP	[-0.00815 , 0.01055]	0.95024
Modified Chi2	[-0.0167 , 0.0054]	0.95024
MODL	[-0.01825 , 0.01005]	0.95024
MVD	[0.0215 , 0.09815]	0.95024
PKID	[-0.0173 , 0.00405]	0.95024
UCPD	[0.0056 , 0.03885]	0.95024
USD	[-0.00775 , 0.01575]	0.95024
Zeta	[-0.0089 , 0.0063]	0.95024

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

14 Detailed results for Extended Chi2

14.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	472.0	308.0	≥ 0.2	0.249614
Ameva	258.0	562.0	≥ 0.2	1
Bayesian	444.0	336.0	≥ 0.2	0.446927
CACC	329.0	451.0	≥ 0.2	1
CADD	745.5	74.5	3.252E-6	0.000017
CAIM	216.0	564.0	≥ 0.2	1
Chi2	192.0	588.0	≥ 0.2	1
ChiMerge	231.0	549.0	≥ 0.2	1
ClusterAnalysis	403.0	417.0	≥ 0.2	1
DIBD	550.0	270.0	0.06026	0.058959
Distance	308.0	512.0	≥ 0.2	1
EqualFrequency	246.5	533.5	≥ 0.2	1
EqualWidth	206.0	574.0	≥ 0.2	1
FFD	270.5	549.5	≥ 0.2	1
FUSINTER	188.0	632.0	≥ 0.2	1
HDD	347.5	472.5	≥ 0.2	1
HellingerBD	288.0	532.0	≥ 0.2	1
Heter-Disc	652.5	127.5	1.2436E-4	0.00023
ID3	334.0	446.0	≥ 0.2	1
IDD	436.0	384.0	≥ 0.2	0.721695
Khiops	254.0	566.0	≥ 0.2	1
MDLP	304.5	475.5	≥ 0.2	1
Modified Chi2	177.5	642.5	≥ 0.2	1
MODL	200.5	579.5	≥ 0.2	1
MVD	612.5	207.5	0.017210999999999997	0.017529
PKID	188.5	631.5	≥ 0.2	1
UCPD	470.0	350.0	≥ 0.2	0.416104
USD	278.0	502.0	≥ 0.2	1
Zeta	256.5	563.5	≥ 0.2	1

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

14.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[-0.00635 , 0.05315]	0.90276
Ameva	[-0.03045 , -0.00175]	0.90276
Bayesian	[-0.0068 , 0.02685]	0.90276
CACC	[-0.0295 , 0.00425]	0.90276
CADD	[0.07355 , 0.18185]	0.90276
CAIM	[-0.0219 , -0.0035]	0.90276
Chi2	[-0.0252 , -0.0056]	0.90276
ChiMerge	[-0.0243 , -0.00295]	0.90276
ClusterAnalysis	[-0.01505 , 0.01075]	0.90276
DIBD	[0.0026 , 0.0388]	0.90276
Distance	[-0.0221 , 0.0022]	0.90276
EqualFrequency	[-0.02075 , -0.0017]	0.90276
EqualWidth	[-0.0252 , -0.00435]	0.90276
FFD	[-0.0303 , -0.0014]	0.90276
FUSINTER	[-0.031 , -0.00645]	0.90276
HDD	[-0.02345 , 0.0034]	0.90276
HellingerBD	[-0.01915 , 0.0001]	0.90276
Heter-Disc	[0.0427 , 0.1077]	0.90276
ID3	[-0.02195 , 0.00375]	0.90276
IDD	[-0.0141 , 0.0269]	0.90276
Khiops	[-0.018 , -0.00165]	0.90276
MDLP	[-0.02215 , 0.00225]	0.90276
Modified Chi2	[-0.02375 , -0.00445]	0.90276
MODL	[-0.02715 , -0.00425]	0.90276
MVD	[0.0143 , 0.07415]	0.90276
PKID	[-0.03695 , -0.0061]	0.90276
UCPD	[-0.0085 , 0.02215]	0.90276
USD	[-0.0234 , 0.00025]	0.90276
Zeta	[-0.0237 , -0.0016]	0.90276

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

α=0.95	Confidence interval	Exact confidence
1R	[-0.011 , 0.0585]	0.95024
Ameva	[-0.03575 , -0.00045]	0.95024
Bayesian	[-0.01005 , 0.03055]	0.95024
CACC	[-0.0361 , 0.0059]	0.95024
CADD	[0.0631 , 0.1889]	0.95024
CAIM	[-0.02645 , -0.00205]	0.95024
Chi2	[-0.0283 , -0.00405]	0.95024
ChiMerge	[-0.02725 , -0.0016]	0.95024
ClusterAnalysis	[-0.01925 , 0.01325]	0.95024
DIBD	[-0.0012 , 0.0416]	0.95024
Distance	[-0.02565 , 0.0039]	0.95024
EqualFrequency	[-0.02275 , -0.00025]	0.95024
EqualWidth	[-0.0283 , -0.0033]	0.95024
FFD	[-0.0344 , 0.00025]	0.95024
FUSINTER	[-0.03735 , -0.0052]	0.95024
HDD	[-0.0296 , 0.00505]	0.95024
HellingerBD	[-0.02175 , 0.0013]	0.95024
Heter-Disc	[0.0378 , 0.12415]	0.95024
ID3	[-0.02755 , 0.005]	0.95024
IDD	[-0.0179 , 0.03165]	0.95024
Khiops	[-0.02055 , -0.00065]	0.95024
MDLP	[-0.02695 , 0.0038]	0.95024
Modified Chi2	[-0.02845 , -0.0033]	0.95024
MODL	[-0.03185 , -0.003]	0.95024
MVD	[0.01045 , 0.08205]	0.95024
PKID	[-0.0425 , -0.0045]	0.95024
UCPD	[-0.01125 , 0.02485]	0.95024
USD	[-0.02585 , 0.00255]	0.95024
Zeta	[-0.0265 , -0.0005]	0.95024

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

15 Detailed results for FFD

15.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	661.0	159.0	4.794E-4	0.000724
Ameva	356.0	424.0	≥ 0.2	1
Bayesian	658.0	162.0	5.698E-4	0.000821
CACC	480.5	299.5	≥ 0.2	0.203329
CADD	813.0	7.0	3.456E-11	0
CAIM	358.5	421.5	≥ 0.2	1
Chi2	389.5	390.5	≥ 0.2	1
ChiMerge	384.0	396.0	≥ 0.2	1
ClusterAnalysis	572.5	247.5	0.07547000000000001	0.073288
DIBD	705.0	75.0	1.723E-6	0.000011
Distance	513.0	307.0	0.17008	0.162046
EqualFrequency	487.5	332.5	≥ 0.2	0.575228
EqualWidth	455.5	364.5	≥ 0.2	0.924763
Extended Chi2	549.5	270.5	0.06122	0.059437
FUSINTER	271.5	511.5	≥ 0.2	1
HDD	511.0	269.0	0.09288	0.089974
HellingerBD	547.5	235.5	0.08138999999999999	0.077697
Heter-Disc	795.0	25.0	1.6444E-9	0
ID3	511.0	272.0	≥ 0.2	0.22747
IDD	612.0	208.0	0.005832	0.006402
Khiops	447.5	335.5	≥ 0.2	0.803056
MDLP	484.5	335.5	≥ 0.2	0.606018
Modified Chi2	372.5	407.5	≥ 0.2	1
MODL	381.0	399.0	≥ 0.2	1
MVD	689.0	131.0	8.252E-5	0.000172
PKID	316.0	504.0	≥ 0.2	1
UCPD	636.5	143.5	3.537E-4	0.000555
USD	476.5	303.5	≥ 0.2	0.223906
Zeta	387.0	393.0	≥ 0.2	1

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

15.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[0.01595 , 0.06265]	0.90276
Ameva	[-0.0082 , 0.0049]	0.90276
Bayesian	[0.0124 , 0.04655]	0.90276
CACC	[-0.00225 , 0.0187]	0.90276
CADD	[0.09715 , 0.2182]	0.90276
CAIM	[-0.00775 , 0.0036]	0.90276
Chi2	[-0.00705 , 0.0073]	0.90276
ChiMerge	[-0.00835 , 0.00685]	0.90276
ClusterAnalysis	[0.0023 , 0.0199]	0.90276
DIBD	[0.0244 , 0.05395]	0.90276
Distance	[-0.00145 , 0.0163]	0.90276
EqualFrequency	[-0.00155 , 0.0101]	0.90276
EqualWidth	[-0.00365 , 0.00895]	0.90276
Extended Chi2	[0.0014 , 0.0303]	0.90276
FUSINTER	[-0.00865 , 0]	0.90276
HDD	[0.00025 , 0.0168]	0.90276
HellingerBD	[0.0008 , 0.02105]	0.90276
Heter-Disc	[0.06465 , 0.1416]	0.90276
ID3	[0 , 0.0182]	0.90276
IDD	[0.00485 , 0.04315]	0.90276
Khiops	[-0.0026 , 0.00855]	0.90276
MDLP	[-0.0024 , 0.01315]	0.90276
Modified Chi2	[-0.00755 , 0.00385]	0.90276
MODL	[-0.0073 , 0.00755]	0.90276
MVD	[0.02365 , 0.0879]	0.90276
PKID	[-0.00505 , 0.00025]	0.90276
UCPD	[0.01545 , 0.0439]	0.90276
USD	[-0.0016 , 0.01255]	0.90276
Zeta	[-0.00695 , 0.00845]	0.90276

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

α=0.95	Confidence interval	Exact confidence
1R	[0.0131 , 0.07225]	0.95024
Ameva	[-0.00945 , 0.0057]	0.95024
Bayesian	[0.01015 , 0.0497]	0.95024
CACC	[-0.003 , 0.02295]	0.95024
CADD	[0.08665 , 0.23315]	0.95024
CAIM	[-0.0093 , 0.0045]	0.95024
Chi2	[-0.00885 , 0.00975]	0.95024
ChiMerge	[-0.00985 , 0.00815]	0.95024
ClusterAnalysis	[0.0007 , 0.02185]	0.95024
DIBD	[0.0221 , 0.059]	0.95024
Distance	[-0.00305 , 0.0198]	0.95024
EqualFrequency	[-0.0023 , 0.0116]	0.95024
EqualWidth	[-0.00475 , 0.012]	0.95024
Extended Chi2	[-0.00025 , 0.0344]	0.95024
FUSINTER	[-0.0097 , 0.0007]	0.95024
HDD	[-0.00135 , 0.01925]	0.95024
HellingerBD	[0.0004 , 0.0231]	0.95024
Heter-Disc	[0.0593 , 0.15]	0.95024
ID3	[-0.00125 , 0.0209]	0.95024
IDD	[0.0034 , 0.04825]	0.95024
Khiops	[-0.0036 , 0.01015]	0.95024
MDLP	[-0.0035 , 0.01585]	0.95024
Modified Chi2	[-0.0088 , 0.0046]	0.95024
MODL	[-0.0081 , 0.0097]	0.95024
MVD	[0.01815 , 0.09415]	0.95024
PKID	[-0.00645 , 0.0011]	0.95024
UCPD	[0.01325 , 0.0464]	0.95024
USD	[-0.00295 , 0.014]	0.95024
Zeta	[-0.0081 , 0.01015]	0.95024

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

16 Detailed results for FUSINTER

16.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	716.5	103.5	1.0839E-5	0.000036
Ameva	431.0	389.0	≥ 0.2	0.771845
Bayesian	712.0	108.0	1.5466E-5	0.000046
CACC	578.5	201.5	0.0076630000000000005	0.008127
CADD	817.0	3.0	9.094E-12	0
CAIM	477.5	342.5	≥ 0.2	0.359096
Chi2	472.0	311.0	≥ 0.2	0.534679
ChiMerge	455.0	365.0	≥ 0.2	0.540135
ClusterAnalysis	564.0	216.0	0.014286	0.014712
DIBD	716.0	64.0	5.618E-7	0.000005
Distance	556.0	264.0	0.04976	0.048557
EqualFrequency	508.5	271.5	0.10003000000000001	0.096203
EqualWidth	520.0	300.0	0.14234	0.137474
Extended Chi2	632.0	188.0	0.002276	0.002738
FFD	511.5	271.5	≥ 0.2	0.223703
HDD	591.5	228.5	0.03918	0.038774
HellingerBD	561.0	219.0	0.016148	0.016698
Heter-Disc	792.0	28.0	2.698E-9	0
ID3	557.0	223.0	0.01895	0.019204
IDD	679.0	141.0	5.68E-4	0.000833
Khiops	499.5	283.5	≥ 0.2	0.300499
MDLP	548.5	271.5	0.06316	0.060842
Modified Chi2	448.0	332.0	≥ 0.2	0.41429
MODL	479.5	303.5	≥ 0.2	0.462672
MVD	714.0	106.0	1.3218E-5	0.000043
PKID	437.5	345.5	≥ 0.2	0.921737
UCPD	653.0	127.0	1.201E-4	0.000236
USD	530.0	250.0	0.05084	0.049121
Zeta	483.0	297.0	0.1991	0.18886

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

16.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[0.0203 , 0.0665]	0.90276
Ameva	[-0.0043 , 0.00825]	0.90276
Bayesian	[0.01705 , 0.04865]	0.90276
CACC	[0.0032 , 0.01875]	0.90276
CADD	[0.1045 , 0.2279]	0.90276
CAIM	[-0.00295 , 0.00675]	0.90276
Chi2	[-0.0021 , 0.01295]	0.90276
ChiMerge	[-0.00355 , 0.00735]	0.90276
ClusterAnalysis	[0.00425 , 0.02605]	0.90276
DIBD	[0.02675 , 0.05895]	0.90276
Distance	[0.00095 , 0.0149]	0.90276
EqualFrequency	[0.00005 , 0.01035]	0.90276
EqualWidth	[-0.0005 , 0.0141]	0.90276
Extended Chi2	[0.00645 , 0.031]	0.90276
FFD	[0 , 0.00865]	0.90276
HDD	[0.00275 , 0.02035]	0.90276
HellingerBD	[0.0027 , 0.0223]	0.90276
Heter-Disc	[0.0661 , 0.1504]	0.90276
ID3	[0.00305 , 0.02235]	0.90276
IDD	[0.0108 , 0.05085]	0.90276
Khiops	[-0.00035 , 0.01285]	0.90276
MDLP	[0.0007 , 0.0157]	0.90276
Modified Chi2	[-0.0033 , 0.0068]	0.90276
MODL	[-0.0011 , 0.00795]	0.90276
MVD	[0.03165 , 0.09195]	0.90276
PKID	[-0.00365 , 0.00465]	0.90276
UCPD	[0.0181 , 0.04535]	0.90276
USD	[0.0013 , 0.01745]	0.90276
Zeta	[-0.00145 , 0.01165]	0.90276

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

α=0.95	Confidence interval	Exact confidence
1R	[0.0174 , 0.07505]	0.95024
Ameva	[-0.0054 , 0.0094]	0.95024
Bayesian	[0.01565 , 0.0538]	0.95024
CACC	[0.00215 , 0.02035]	0.95024
CADD	[0.0948 , 0.24175]	0.95024
CAIM	[-0.004 , 0.0079]	0.95024
Chi2	[-0.00345 , 0.0144]	0.95024
ChiMerge	[-0.0047 , 0.00875]	0.95024
ClusterAnalysis	[0.0028 , 0.0278]	0.95024
DIBD	[0.02485 , 0.06285]	0.95024
Distance	[0.00005 , 0.0168]	0.95024
EqualFrequency	[-0.00055 , 0.0128]	0.95024
EqualWidth	[-0.0018 , 0.01535]	0.95024
Extended Chi2	[0.0052 , 0.03735]	0.95024
FFD	[-0.0007 , 0.0097]	0.95024
HDD	[0.00185 , 0.0228]	0.95024
HellingerBD	[0.00175 , 0.0243]	0.95024
Heter-Disc	[0.06095 , 0.16075]	0.95024
ID3	[0.0018 , 0.02475]	0.95024
IDD	[0.00905 , 0.05495]	0.95024
Khiops	[-0.0012 , 0.01405]	0.95024
MDLP	[-0.0004 , 0.018]	0.95024
Modified Chi2	[-0.0055 , 0.0078]	0.95024
MODL	[-0.00205 , 0.00945]	0.95024
MVD	[0.027 , 0.10005]	0.95024
PKID	[-0.0052 , 0.00575]	0.95024
UCPD	[0.01515 , 0.0482]	0.95024
USD	[0.00025 , 0.01885]	0.95024
Zeta	[-0.00295 , 0.01305]	0.95024

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

17 Detailed results for HDD

17.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	536.0	244.0	0.04138	0.040913
Ameva	308.0	472.0	≥ 0.2	1
Bayesian	521.0	259.0	0.06824	0.066494
CACC	394.5	425.5	≥ 0.2	1
CADD	811.0	9.0	6.002E-11	0
CAIM	317.0	503.0	≥ 0.2	1
Chi2	338.5	441.5	≥ 0.2	1
ChiMerge	327.0	453.0	≥ 0.2	1
ClusterAnalysis	402.0	418.0	≥ 0.2	1
DIBD	560.0	220.0	0.016812	0.01715
Distance	369.0	411.0	≥ 0.2	1
EqualFrequency	313.0	467.0	≥ 0.2	1
EqualWidth	328.0	452.0	≥ 0.2	1
Extended Chi2	472.5	347.5	≥ 0.2	0.733252
FFD	269.0	511.0	≥ 0.2	1
FUSINTER	228.5	591.5	≥ 0.2	1
HellingerBD	365.0	418.0	≥ 0.2	1
Heter-Disc	720.0	100.0	8.152E-6	0.00003
ID3	324.0	461.0	≥ 0.2	1
IDD	513.0	307.0	0.17008	0.162755
Khiops	341.5	478.5	≥ 0.2	1
MDLP	345.0	435.0	≥ 0.2	1
Modified Chi2	310.0	510.0	≥ 0.2	1
MODL	255.0	525.0	≥ 0.2	1
MVD	630.0	150.0	5.26E-4	0.00079
PKID	269.5	550.5	≥ 0.2	1
UCPD	486.0	294.0	0.18474	0.178091
USD	290.5	529.5	≥ 0.2	1
Zeta	319.0	501.0	≥ 0.2	1

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

17.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[0.00535 , 0.06625]	0.90276
Ameva	[-0.0159 , 0.0033]	0.90276
Bayesian	[0.00075 , 0.02245]	0.90276
CACC	[-0.0132 , 0.00845]	0.90276
CADD	[0.08555 , 0.1923]	0.90276
CAIM	[-0.01315 , 0.00025]	0.90276
Chi2	[-0.0121 , 0.00355]	0.90276
ChiMerge	[-0.01345 , 0.0043]	0.90276
ClusterAnalysis	[-0.01005 , 0.01085]	0.90276
DIBD	[0.0082 , 0.0425]	0.90276
Distance	[-0.01455 , 0.00845]	0.90276
EqualFrequency	[-0.01605 , 0.0033]	0.90276
EqualWidth	[-0.01485 , 0.005]	0.90276
Extended Chi2	[-0.0034 , 0.02345]	0.90276
FFD	[-0.0168 , -0.00025]	0.90276
FUSINTER	[-0.02035 , -0.00275]	0.90276
HellingerBD	[-0.01325 , 0.0093]	0.90276
Heter-Disc	[0.04735 , 0.12635]	0.90276
ID3	[-0.00745 , 0.00175]	0.90276
IDD	[-0.0019 , 0.03905]	0.90276
Khiops	[-0.0141 , 0.00465]	0.90276
MDLP	[-0.01255 , 0.00485]	0.90276
Modified Chi2	[-0.0168 , 0.00105]	0.90276
MODL	[-0.0164 , -0.00105]	0.90276
MVD	[0.0297 , 0.08075]	0.90276
PKID	[-0.02035 , -0.001]	0.90276
UCPD	[-0.00285 , 0.02595]	0.90276
USD	[-0.011 , 0.0001]	0.90276
Zeta	[-0.01135 , 0.00215]	0.90276

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

α=0.95	Confidence interval	Exact confidence
1R	[0.00125 , 0.07375]	0.95024
Ameva	[-0.0188 , 0.00525]	0.95024
Bayesian	[-0.0007 , 0.026]	0.95024
CACC	[-0.0157 , 0.01135]	0.95024
CADD	[0.0767 , 0.2038]	0.95024
CAIM	[-0.017 , 0.0013]	0.95024
Chi2	[-0.01515 , 0.0047]	0.95024
ChiMerge	[-0.0158 , 0.0074]	0.95024
ClusterAnalysis	[-0.01235 , 0.01375]	0.95024
DIBD	[0.00505 , 0.0475]	0.95024
Distance	[-0.0177 , 0.01105]	0.95024
EqualFrequency	[-0.021 , 0.00485]	0.95024
EqualWidth	[-0.01805 , 0.0078]	0.95024
Extended Chi2	[-0.00505 , 0.0296]	0.95024
FFD	[-0.01925 , 0.00135]	0.95024
FUSINTER	[-0.0228 , -0.00185]	0.95024
HellingerBD	[-0.0157 , 0.0126]	0.95024
Heter-Disc	[0.04155 , 0.13685]	0.95024
ID3	[-0.0084 , 0.00245]	0.95024
IDD	[-0.0037 , 0.0423]	0.95024
Khiops	[-0.0166 , 0.00635]	0.95024
MDLP	[-0.0147 , 0.0076]	0.95024
Modified Chi2	[-0.0195 , 0.00185]	0.95024
MODL	[-0.01795 , 0.0004]	0.95024
MVD	[0.02545 , 0.0862]	0.95024
PKID	[-0.02255 , 0.00035]	0.95024
UCPD	[-0.00645 , 0.03]	0.95024
USD	[-0.01255 , 0.00085]	0.95024
Zeta	[-0.01315 , 0.0045]	0.95024

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

18 Detailed results for HellingerBD

18.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	614.0	206.0	0.005332	0.005982
Ameva	296.0	484.0	≥ 0.2	1
Bayesian	563.5	256.5	0.03878	0.038131
CACC	418.5	401.5	≥ 0.2	0.903552
CADD	809.0	11.0	1.0004E-10	0
CAIM	267.0	553.0	≥ 0.2	1
Chi2	351.5	428.5	≥ 0.2	1
ChiMerge	274.0	506.0	≥ 0.2	1
ClusterAnalysis	421.0	359.0	≥ 0.2	0.66024
DIBD	661.0	119.0	6.838E-5	0.000151
Distance	380.0	440.0	≥ 0.2	1
EqualFrequency	241.0	542.0	≥ 0.2	1
EqualWidth	304.0	476.0	≥ 0.2	1
Extended Chi2	532.0	288.0	0.1029	0.099649
FFD	235.5	547.5	≥ 0.2	1
FUSINTER	219.0	561.0	≥ 0.2	1
HDD	418.0	365.0	≥ 0.2	1
Heter-Disc	763.0	57.0	1.3044E-7	0.000002
ID3	434.5	348.5	≥ 0.2	0.95781
IDD	544.0	236.0	0.03108	0.030787
Khiops	299.5	483.5	≥ 0.2	1
MDLP	348.0	432.0	≥ 0.2	1
Modified Chi2	323.5	496.5	≥ 0.2	1
MODL	305.0	478.0	≥ 0.2	1
MVD	639.0	181.0	0.001598	0.001967
PKID	269.5	550.5	≥ 0.2	1
UCPD	568.0	252.0	0.08712	0.083826
USD	396.5	383.5	≥ 0.2	0.922047
Zeta	309.0	511.0	≥ 0.2	1

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

18.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[0.0066 , 0.05105]	0.90276
Ameva	[-0.02025 , 0.0016]	0.90276
Bayesian	[0.00455 , 0.0296]	0.90276
CACC	[-0.0079 , 0.00855]	0.90276
CADD	[0.08095 , 0.19215]	0.90276
CAIM	[-0.01885 , -0.00105]	0.90276
Chi2	[-0.01465 , 0.00535]	0.90276
ChiMerge	[-0.0182 , 0.00015]	0.90276
ClusterAnalysis	[-0.00795 , 0.01315]	0.90276
DIBD	[0.01645 , 0.0437]	0.90276
Distance	[-0.01325 , 0.0058]	0.90276
EqualFrequency	[-0.0148 , -0.0013]	0.90276
EqualWidth	[-0.00955 , 0.00085]	0.90276
Extended Chi2	[-0.0001 , 0.01915]	0.90276
FFD	[-0.02105 , -0.0008]	0.90276
FUSINTER	[-0.0223 , -0.0027]	0.90276
HDD	[-0.0093 , 0.01325]	0.90276
Heter-Disc	[0.05515 , 0.11185]	0.90276
ID3	[-0.0074 , 0.01355]	0.90276
IDD	[0.00365 , 0.0277]	0.90276
Khiops	[-0.01345 , 0.00095]	0.90276
MDLP	[-0.01545 , 0.00525]	0.90276
Modified Chi2	[-0.02175 , 0.0021]	0.90276
MODL	[-0.01935 , 0.00215]	0.90276
MVD	[0.0175 , 0.07925]	0.90276
PKID	[-0.0189 , -0.00045]	0.90276
UCPD	[0.0029 , 0.02885]	0.90276
USD	[-0.00975 , 0.0117]	0.90276
Zeta	[-0.0158 , 0.0015]	0.90276

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

α=0.95	Confidence interval	Exact confidence
1R	[0.0049 , 0.05515]	0.95024
Ameva	[-0.0224 , 0.0025]	0.95024
Bayesian	[0.00125 , 0.0322]	0.95024
CACC	[-0.01065 , 0.01025]	0.95024
CADD	[0.0765 , 0.19985]	0.95024
CAIM	[-0.02165 , 0.0001]	0.95024
Chi2	[-0.0166 , 0.0067]	0.95024
ChiMerge	[-0.02015 , 0.00185]	0.95024
ClusterAnalysis	[-0.01035 , 0.015]	0.95024
DIBD	[0.0151 , 0.04775]	0.95024
Distance	[-0.01585 , 0.00765]	0.95024
EqualFrequency	[-0.0169 , -0.00025]	0.95024
EqualWidth	[-0.01215 , 0.00165]	0.95024
Extended Chi2	[-0.0013 , 0.02175]	0.95024
FFD	[-0.0231 , -0.0004]	0.95024
FUSINTER	[-0.0243 , -0.00175]	0.95024
HDD	[-0.0126 , 0.0157]	0.95024
Heter-Disc	[0.05145 , 0.1209]	0.95024
ID3	[-0.01095 , 0.0159]	0.95024
IDD	[0.00165 , 0.03595]	0.95024
Khiops	[-0.0153 , 0.00245]	0.95024
MDLP	[-0.0179 , 0.00735]	0.95024
Modified Chi2	[-0.02395 , 0.0035]	0.95024
MODL	[-0.0224 , 0.00445]	0.95024
MVD	[0.0145 , 0.0889]	0.95024
PKID	[-0.0218 , 0]	0.95024
UCPD	[0.0011 , 0.0305]	0.95024
USD	[-0.01235 , 0.0136]	0.95024
Zeta	[-0.0183 , 0.00255]	0.95024

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

19 Detailed results for Heter-Disc

19.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	248.5	571.5	≥ 0.2	1
Ameva	19.5	800.5	≥ 0.2	1
Bayesian	142.5	677.5	≥ 0.2	1
CACC	43.5	776.5	≥ 0.2	1
CADD	484.5	335.5	≥ 0.2	1
CAIM	16.0	804.0	≥ 0.2	1
Chi2	71.5	748.5	≥ 0.2	1
ChiMerge	33.0	787.0	≥ 0.2	1
ClusterAnalysis	77.0	703.0	≥ 0.2	1
DIBD	139.0	641.0	≥ 0.2	1
Distance	83.0	737.0	≥ 0.2	1
EqualFrequency	47.5	772.5	≥ 0.2	1
EqualWidth	57.0	763.0	≥ 0.2	1
Extended Chi2	127.5	652.5	≥ 0.2	1
FFD	25.0	795.0	≥ 0.2	1
FUSINTER	28.0	792.0	≥ 0.2	1
HDD	100.0	720.0	≥ 0.2	1
HellingerBD	57.0	763.0	≥ 0.2	1
ID3	93.0	727.0	≥ 0.2	1
IDD	160.0	623.0	≥ 0.2	1
Khiops	20.0	760.0	≥ 0.2	1
MDLP	71.0	749.0	≥ 0.2	1
Modified Chi2	33.0	787.0	≥ 0.2	1
MODL	41.0	779.0	≥ 0.2	1
MVD	273.0	514.0	≥ 0.2	1
PKID	29.0	791.0	≥ 0.2	1
UCPD	62.0	758.0	≥ 0.2	1
USD	73.0	747.0	≥ 0.2	1
Zeta	19.0	801.0	≥ 0.2	1

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

19.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[-0.0731 , -0.00525]	0.90276
Ameva	[-0.1285 , -0.061]	0.90276
Bayesian	[-0.11525 , -0.0336]	0.90276
CACC	[-0.09835 , -0.0517]	0.90276
CADD	[-0.00335 , 0.1039]	0.90276
CAIM	[-0.14825 , -0.0626]	0.90276
Chi2	[-0.14045 , -0.0581]	0.90276
ChiMerge	[-0.15245 , -0.0622]	0.90276
ClusterAnalysis	[-0.12115 , -0.05135]	0.90276
DIBD	[-0.07025 , -0.01925]	0.90276
Distance	[-0.13215 , -0.0531]	0.90276
EqualFrequency	[-0.14095 , -0.0615]	0.90276
EqualWidth	[-0.14595 , -0.0588]	0.90276
Extended Chi2	[-0.1077 , -0.0427]	0.90276
FFD	[-0.1416 , -0.06465]	0.90276
FUSINTER	[-0.1504 , -0.0661]	0.90276
HDD	[-0.12635 , -0.04735]	0.90276
HellingerBD	[-0.11185 , -0.05515]	0.90276
ID3	[-0.1293 , -0.04965]	0.90276
IDD	[-0.08005 , -0.0247]	0.90276
Khiops	[-0.12885 , -0.06135]	0.90276
MDLP	[-0.1256 , -0.0535]	0.90276
Modified Chi2	[-0.14965 , -0.0638]	0.90276
MODL	[-0.1335 , -0.0654]	0.90276
MVD	[-0.0543 , 0]	0.90276
PKID	[-0.1419 , -0.0683]	0.90276
UCPD	[-0.10125 , -0.04365]	0.90276
USD	[-0.13395 , -0.054]	0.90276
Zeta	[-0.14255 , -0.0616]	0.90276

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

α=0.95	Confidence interval	Exact confidence
1R	[-0.0826 , -0.00175]	0.95024
Ameva	[-0.1327 , -0.058]	0.95024
Bayesian	[-0.1186 , -0.02595]	0.95024
CACC	[-0.1045 , -0.049]	0.95024
CADD	[-0.00745 , 0.11505]	0.95024
CAIM	[-0.1581 , -0.05885]	0.95024
Chi2	[-0.1489 , -0.05225]	0.95024
ChiMerge	[-0.16305 , -0.0582]	0.95024
ClusterAnalysis	[-0.13245 , -0.0457]	0.95024
DIBD	[-0.0859 , -0.01555]	0.95024
Distance	[-0.13785 , -0.04635]	0.95024
EqualFrequency	[-0.15125 , -0.0555]	0.95024
EqualWidth	[-0.15375 , -0.0552]	0.95024
Extended Chi2	[-0.12415 , -0.0378]	0.95024
FFD	[-0.15 , -0.0593]	0.95024
FUSINTER	[-0.16075 , -0.06095]	0.95024
HDD	[-0.13685 , -0.04155]	0.95024
HellingerBD	[-0.1209 , -0.05145]	0.95024
ID3	[-0.1353 , -0.04335]	0.95024
IDD	[-0.0848 , -0.0209]	0.95024
Khiops	[-0.13535 , -0.05725]	0.95024
MDLP	[-0.1354 , -0.04835]	0.95024
Modified Chi2	[-0.16195 , -0.05795]	0.95024
MODL	[-0.14045 , -0.0614]	0.95024
MVD	[-0.06395 , 0.0021]	0.95024
PKID	[-0.1545 , -0.06305]	0.95024
UCPD	[-0.1107 , -0.04075]	0.95024
USD	[-0.14125 , -0.0493]	0.95024
Zeta	[-0.15125 , -0.0579]	0.95024

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

20 Detailed results for ID3

20.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	526.0	254.0	0.05806	0.056799
Ameva	330.5	489.5	≥ 0.2	1
Bayesian	556.0	227.0	0.06084	0.059324
CACC	364.0	416.0	≥ 0.2	1
CADD	803.0	17.0	3.766E-10	0
CAIM	302.0	478.0	≥ 0.2	1
Chi2	344.5	435.5	≥ 0.2	1
ChiMerge	341.0	439.0	≥ 0.2	1
ClusterAnalysis	354.0	429.0	≥ 0.2	1
DIBD	540.0	240.0	0.03594	0.035067
Distance	386.0	434.0	≥ 0.2	1
EqualFrequency	314.0	506.0	≥ 0.2	1
EqualWidth	345.0	438.0	≥ 0.2	1
Extended Chi2	446.0	334.0	≥ 0.2	0.429624
FFD	272.0	511.0	≥ 0.2	1
FUSINTER	223.0	557.0	≥ 0.2	1
HDD	461.0	324.0	≥ 0.2	1
HellingerBD	348.5	434.5	≥ 0.2	1
Heter-Disc	727.0	93.0	4.528E-6	0.00002
IDD	494.0	326.0	≥ 0.2	0.256045
Khiops	299.5	480.5	≥ 0.2	1
MDLP	357.0	423.0	≥ 0.2	1
Modified Chi2	306.0	514.0	≥ 0.2	1
MODL	262.0	521.0	≥ 0.2	1
MVD	630.0	150.0	5.26E-4	0.00079
PKID	237.5	547.5	≥ 0.2	1
UCPD	474.0	306.0	≥ 0.2	0.2375
USD	244.0	539.0	≥ 0.2	1
Zeta	339.0	481.0	≥ 0.2	1

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

20.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[0.00345 , 0.06765]	0.90276
Ameva	[-0.0183 , 0.00485]	0.90276
Bayesian	[0.00265 , 0.0157]	0.90276
CACC	[-0.012 , 0.00975]	0.90276
CADD	[0.087 , 0.19245]	0.90276
CAIM	[-0.0174 , 0.002]	0.90276
Chi2	[-0.01665 , 0.0043]	0.90276
ChiMerge	[-0.0159 , 0.005]	0.90276
ClusterAnalysis	[-0.0085 , 0.00715]	0.90276
DIBD	[0.0055 , 0.04315]	0.90276
Distance	[-0.01955 , 0.0098]	0.90276
EqualFrequency	[-0.02195 , 0.00215]	0.90276
EqualWidth	[-0.015 , 0.0038]	0.90276
Extended Chi2	[-0.00375 , 0.02195]	0.90276
FFD	[-0.0182 , 0]	0.90276
FUSINTER	[-0.02235 , -0.00305]	0.90276
HDD	[-0.00175 , 0.00745]	0.90276
HellingerBD	[-0.01355 , 0.0074]	0.90276
Heter-Disc	[0.04965 , 0.1293]	0.90276
IDD	[-0.0056 , 0.03685]	0.90276
Khiops	[-0.0145 , 0.00235]	0.90276
MDLP	[-0.02105 , 0.0069]	0.90276
Modified Chi2	[-0.0183 , 0.0007]	0.90276
MODL	[-0.0151 , -0.00055]	0.90276
MVD	[0.0316 , 0.08725]	0.90276
PKID	[-0.0203 , -0.00155]	0.90276
UCPD	[-0.0048 , 0.0237]	0.90276
USD	[-0.0075 , -0.00045]	0.90276
Zeta	[-0.01325 , 0.0041]	0.90276

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

α=0.95	Confidence interval	Exact confidence
1R	[-0.0006 , 0.07745]	0.95024
Ameva	[-0.0207 , 0.00765]	0.95024
Bayesian	[0.0013 , 0.01925]	0.95024
CACC	[-0.01395 , 0.01285]	0.95024
CADD	[0.0792 , 0.2097]	0.95024
CAIM	[-0.0229 , 0.0032]	0.95024
Chi2	[-0.0198 , 0.00585]	0.95024
ChiMerge	[-0.0194 , 0.00745]	0.95024
ClusterAnalysis	[-0.00985 , 0.0092]	0.95024
DIBD	[0.0028 , 0.04775]	0.95024
Distance	[-0.0229 , 0.0131]	0.95024
EqualFrequency	[-0.02565 , 0.00615]	0.95024
EqualWidth	[-0.01955 , 0.0064]	0.95024
Extended Chi2	[-0.005 , 0.02755]	0.95024
FFD	[-0.0209 , 0.00125]	0.95024
FUSINTER	[-0.02475 , -0.0018]	0.95024
HDD	[-0.00245 , 0.0084]	0.95024
HellingerBD	[-0.0159 , 0.01095]	0.95024
Heter-Disc	[0.04335 , 0.1353]	0.95024
IDD	[-0.00925 , 0.0444]	0.95024
Khiops	[-0.01665 , 0.0047]	0.95024
MDLP	[-0.02535 , 0.0088]	0.95024
Modified Chi2	[-0.0231 , 0.00145]	0.95024
MODL	[-0.01765 , 0.00035]	0.95024
MVD	[0.0262 , 0.0936]	0.95024
PKID	[-0.0239 , -0.00075]	0.95024
UCPD	[-0.0067 , 0.02775]	0.95024
USD	[-0.00835 , -0.00015]	0.95024
Zeta	[-0.01525 , 0.0064]	0.95024

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

21 Detailed results for IDD

21.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	517.5	302.5	≥ 0.2	1
Ameva	168.5	611.5	≥ 0.2	1
Bayesian	457.5	362.5	≥ 0.2	0.901717
CACC	265.0	555.0	≥ 0.2	1
CADD	768.0	15.0	1.9936E-9	0
CAIM	142.5	637.5	≥ 0.2	1
Chi2	231.0	549.0	≥ 0.2	1
ChiMerge	174.0	606.0	≥ 0.2	1
ClusterAnalysis	306.0	474.0	≥ 0.2	1
DIBD	512.0	268.0	0.09014	0.086809
Distance	264.0	556.0	≥ 0.2	1
EqualFrequency	246.0	574.0	≥ 0.2	1
EqualWidth	265.5	554.5	≥ 0.2	1
Extended Chi2	384.0	436.0	≥ 0.2	1
FFD	208.0	612.0	≥ 0.2	1
FUSINTER	141.0	679.0	≥ 0.2	1
HDD	307.0	513.0	≥ 0.2	1
HellingerBD	236.0	544.0	≥ 0.2	1
Heter-Disc	623.0	160.0	0.003158	0.003773
ID3	326.0	494.0	≥ 0.2	1
Khiops	230.0	590.0	≥ 0.2	1
MDLP	249.0	571.0	≥ 0.2	1
Modified Chi2	198.5	581.5	≥ 0.2	1
MODL	176.0	604.0	≥ 0.2	1
MVD	538.0	245.0	0.11046	0.106477
PKID	144.5	635.5	≥ 0.2	1
UCPD	427.0	393.0	≥ 0.2	0.814036
USD	300.0	520.0	≥ 0.2	1
Zeta	216.5	563.5	≥ 0.2	1

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

21.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[-0.00005 , 0.0222]	0.90276
Ameva	[-0.0472 , -0.00835]	0.90276
Bayesian	[-0.0094 , 0.01295]	0.90276
CACC	[-0.033 , -0.00225]	0.90276
CADD	[0.05785 , 0.1481]	0.90276
CAIM	[-0.05065 , -0.00705]	0.90276
Chi2	[-0.046 , -0.00455]	0.90276
ChiMerge	[-0.05 , -0.00585]	0.90276
ClusterAnalysis	[-0.0286 , 0.0047]	0.90276
DIBD	[0.0002 , 0.02055]	0.90276
Distance	[-0.04315 , -0.00165]	0.90276
EqualFrequency	[-0.0463 , -0.00365]	0.90276
EqualWidth	[-0.04525 , -0.0024]	0.90276
Extended Chi2	[-0.0269 , 0.0141]	0.90276
FFD	[-0.04315 , -0.00485]	0.90276
FUSINTER	[-0.05085 , -0.0108]	0.90276
HDD	[-0.03905 , 0.0019]	0.90276
HellingerBD	[-0.0277 , -0.00365]	0.90276
Heter-Disc	[0.0247 , 0.08005]	0.90276
ID3	[-0.03685 , 0.0056]	0.90276
Khiops	[-0.0451 , -0.004]	0.90276
MDLP	[-0.0416 , -0.0025]	0.90276
Modified Chi2	[-0.0477 , -0.0054]	0.90276
MODL	[-0.039 , -0.0089]	0.90276
MVD	[0.00385 , 0.048]	0.90276
PKID	[-0.044 , -0.01]	0.90276
UCPD	[-0.0218 , 0.02265]	0.90276
USD	[-0.03835 , 0.0014]	0.90276
Zeta	[-0.04615 , -0.00525]	0.90276

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

α=0.95	Confidence interval	Exact confidence
1R	[-0.00165 , 0.02455]	0.95024
Ameva	[-0.05275 , -0.0068]	0.95024
Bayesian	[-0.0128 , 0.015]	0.95024
CACC	[-0.0362 , -0.0001]	0.95024
CADD	[0.0527 , 0.1554]	0.95024
CAIM	[-0.0543 , -0.0062]	0.95024
Chi2	[-0.05 , -0.0022]	0.95024
ChiMerge	[-0.0543 , -0.00465]	0.95024
ClusterAnalysis	[-0.03525 , 0.0079]	0.95024
DIBD	[-0.0021 , 0.023]	0.95024
Distance	[-0.04865 , -0]	0.95024
EqualFrequency	[-0.0503 , -0.00165]	0.95024
EqualWidth	[-0.0509 , 0]	0.95024
Extended Chi2	[-0.03165 , 0.0179]	0.95024
FFD	[-0.04825 , -0.0034]	0.95024
FUSINTER	[-0.05495 , -0.00905]	0.95024
HDD	[-0.0423 , 0.0037]	0.95024
HellingerBD	[-0.03595 , -0.00165]	0.95024
Heter-Disc	[0.0209 , 0.0848]	0.95024
ID3	[-0.0444 , 0.00925]	0.95024
Khiops	[-0.05235 , -0.00285]	0.95024
MDLP	[-0.04755 , -0.001]	0.95024
Modified Chi2	[-0.05305 , -0.0037]	0.95024
MODL	[-0.04575 , -0.00695]	0.95024
MVD	[0.0008 , 0.0567]	0.95024
PKID	[-0.04895 , -0.0081]	0.95024
UCPD	[-0.0304 , 0.0258]	0.95024
USD	[-0.0447 , 0.0036]	0.95024
Zeta	[-0.0521 , -0.00335]	0.95024

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

22 Detailed results for Khiops

22.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	670.5	149.5	2.723E-4	0.000441
Ameva	333.0	487.0	≥ 0.2	1
Bayesian	630.0	190.0	0.002512	0.00299
CACC	468.0	312.0	≥ 0.2	0.273312
CADD	807.0	13.0	1.6008E-10	0
CAIM	345.0	435.0	≥ 0.2	1
Chi2	388.0	432.0	≥ 0.2	1
ChiMerge	333.0	447.0	≥ 0.2	1
ClusterAnalysis	475.5	344.5	≥ 0.2	0.700748
DIBD	685.0	95.0	1.0536E-5	0.000037
Distance	412.0	371.0	≥ 0.2	1
EqualFrequency	353.0	467.0	≥ 0.2	1
EqualWidth	392.0	428.0	≥ 0.2	1
Extended Chi2	566.0	254.0	0.0356	0.035417
FFD	335.5	447.5	≥ 0.2	1
FUSINTER	283.5	499.5	≥ 0.2	1
HDD	478.5	341.5	≥ 0.2	0.668219
HellingerBD	483.5	299.5	≥ 0.2	0.426597
Heter-Disc	760.0	20.0	1.3496E-9	0
ID3	480.5	299.5	≥ 0.2	0.203329
IDD	590.0	230.0	0.014678	0.014919
MDLP	376.0	404.0	≥ 0.2	1
Modified Chi2	334.5	445.5	≥ 0.2	1
MODL	360.5	459.5	≥ 0.2	1
MVD	628.0	152.0	5.928E-4	0.000856
PKID	392.0	391.0	≥ 0.2	1
UCPD	599.5	220.5	0.028999999999999998	0.028486
USD	453.5	366.5	≥ 0.2	0.947967
Zeta	404.0	416.0	≥ 0.2	1

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

22.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[0.0131 , 0.0636]	0.90276
Ameva	[-0.01035 , 0.0026]	0.90276
Bayesian	[0.007 , 0.03075]	0.90276
CACC	[-0.00185 , 0.012]	0.90276
CADD	[0.09035 , 0.1996]	0.90276
CAIM	[-0.00765 , 0.0025]	0.90276
Chi2	[-0.00785 , 0.0044]	0.90276
ChiMerge	[-0.01025 , 0.00385]	0.90276
ClusterAnalysis	[-0.00475 , 0.01645]	0.90276
DIBD	[0.0187 , 0.05255]	0.90276
Distance	[-0.0074 , 0.009]	0.90276
EqualFrequency	[-0.0082 , 0.00295]	0.90276
EqualWidth	[-0.0084 , 0.00475]	0.90276
Extended Chi2	[0.00165 , 0.018]	0.90276
FFD	[-0.00855 , 0.0026]	0.90276
FUSINTER	[-0.01285 , 0.00035]	0.90276
HDD	[-0.00465 , 0.0141]	0.90276
HellingerBD	[-0.00095 , 0.01345]	0.90276
Heter-Disc	[0.06135 , 0.12885]	0.90276
ID3	[-0.00235 , 0.0145]	0.90276
IDD	[0.004 , 0.0451]	0.90276
MDLP	[-0.0064 , 0.0065]	0.90276
Modified Chi2	[-0.0097 , 0.0029]	0.90276
MODL	[-0.00945 , 0.00515]	0.90276
MVD	[0.022 , 0.08245]	0.90276
PKID	[-0.00395 , 0.0029]	0.90276
UCPD	[0.0058 , 0.0327]	0.90276
USD	[-0.00465 , 0.0092]	0.90276
Zeta	[-0.00745 , 0.0057]	0.90276

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

α=0.95	Confidence interval	Exact confidence
1R	[0.01115 , 0.0685]	0.95024
Ameva	[-0.0114 , 0.0043]	0.95024
Bayesian	[0.00525 , 0.03745]	0.95024
CACC	[-0.00355 , 0.01445]	0.95024
CADD	[0.0821 , 0.2153]	0.95024
CAIM	[-0.00925 , 0.0037]	0.95024
Chi2	[-0.0092 , 0.0051]	0.95024
ChiMerge	[-0.0115 , 0.00485]	0.95024
ClusterAnalysis	[-0.0069 , 0.01885]	0.95024
DIBD	[0.01625 , 0.05835]	0.95024
Distance	[-0.0091 , 0.0105]	0.95024
EqualFrequency	[-0.01035 , 0.00395]	0.95024
EqualWidth	[-0.00935 , 0.00645]	0.95024
Extended Chi2	[0.00065 , 0.02055]	0.95024
FFD	[-0.01015 , 0.0036]	0.95024
FUSINTER	[-0.01405 , 0.0012]	0.95024
HDD	[-0.00635 , 0.0166]	0.95024
HellingerBD	[-0.00245 , 0.0153]	0.95024
Heter-Disc	[0.05725 , 0.13535]	0.95024
ID3	[-0.0047 , 0.01665]	0.95024
IDD	[0.00285 , 0.05235]	0.95024
MDLP	[-0.00785 , 0.0077]	0.95024
Modified Chi2	[-0.01135 , 0.00375]	0.95024
MODL	[-0.01135 , 0.00675]	0.95024
MVD	[0.01885 , 0.08935]	0.95024
PKID	[-0.00525 , 0.00355]	0.95024
UCPD	[0.00345 , 0.03525]	0.95024
USD	[-0.00645 , 0.0109]	0.95024
Zeta	[-0.0093 , 0.00685]	0.95024

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

23 Detailed results for MDLP

23.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	619.5	200.5	0.004148000000000001	0.004692
Ameva	298.0	482.0	≥ 0.2	1
Bayesian	584.0	236.0	0.018526	0.019001
CACC	486.0	334.0	≥ 0.2	0.3022
CADD	773.0	47.0	3.948E-8	0.000001
CAIM	273.0	547.0	≥ 0.2	1
Chi2	419.0	401.0	≥ 0.2	0.898392
ChiMerge	317.5	502.5	≥ 0.2	1
ClusterAnalysis	430.0	350.0	≥ 0.2	0.571953
DIBD	632.0	148.0	4.662E-4	0.000699
Distance	409.0	374.0	≥ 0.2	1
EqualFrequency	366.5	453.5	≥ 0.2	1
EqualWidth	368.0	412.0	≥ 0.2	1
Extended Chi2	475.5	304.5	≥ 0.2	0.229276
FFD	335.5	484.5	≥ 0.2	1
FUSINTER	271.5	548.5	≥ 0.2	1
HDD	435.0	345.0	≥ 0.2	0.524011
HellingerBD	432.0	348.0	≥ 0.2	0.553123
Heter-Disc	749.0	71.0	5.842E-7	0.000005
ID3	423.0	357.0	≥ 0.2	0.640148
IDD	571.0	249.0	0.0299	0.029949
Khiops	404.0	376.0	≥ 0.2	0.839091
Modified Chi2	341.5	438.5	≥ 0.2	1
MODL	311.5	508.5	≥ 0.2	1
MVD	587.0	233.0	0.016506	0.017041
PKID	348.5	471.5	≥ 0.2	1
UCPD	563.0	257.0	0.03944	0.03909
USD	435.0	385.0	≥ 0.2	0.731784
Zeta	271.0	509.0	≥ 0.2	1

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

23.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[0.00915 , 0.05995]	0.90276
Ameva	[-0.01305 , 0.0015]	0.90276
Bayesian	[0.00625 , 0.03625]	0.90276
CACC	[-0.0024 , 0.011]	0.90276
CADD	[0.0961 , 0.1951]	0.90276
CAIM	[-0.01445 , -0.0005]	0.90276
Chi2	[-0.0075 , 0.0065]	0.90276
ChiMerge	[-0.01585 , 0.00115]	0.90276
ClusterAnalysis	[-0.0086 , 0.0202]	0.90276
DIBD	[0.0135 , 0.0437]	0.90276
Distance	[-0.00335 , 0.004]	0.90276
EqualFrequency	[-0.01055 , 0.0041]	0.90276
EqualWidth	[-0.00845 , 0.00575]	0.90276
Extended Chi2	[-0.00225 , 0.02215]	0.90276
FFD	[-0.01315 , 0.0024]	0.90276
FUSINTER	[-0.0157 , -0.0007]	0.90276
HDD	[-0.00485 , 0.01255]	0.90276
HellingerBD	[-0.00525 , 0.01545]	0.90276
Heter-Disc	[0.0535 , 0.1256]	0.90276
ID3	[-0.0069 , 0.02105]	0.90276
IDD	[0.0025 , 0.0416]	0.90276
Khiops	[-0.0065 , 0.0064]	0.90276
Modified Chi2	[-0.00985 , 0.0035]	0.90276
MODL	[-0.0134 , 0.0021]	0.90276
MVD	[0.01075 , 0.08285]	0.90276
PKID	[-0.0163 , 0.003]	0.90276
UCPD	[0.00305 , 0.0316]	0.90276
USD	[-0.0089 , 0.01405]	0.90276
Zeta	[-0.0143 , -0.0001]	0.90276

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

α=0.95	Confidence interval	Exact confidence
1R	[0.00605 , 0.068]	0.95024
Ameva	[-0.01495 , 0.00265]	0.95024
Bayesian	[0.004 , 0.0413]	0.95024
CACC	[-0.0045 , 0.01255]	0.95024
CADD	[0.0849 , 0.20455]	0.95024
CAIM	[-0.0173 , 0.0004]	0.95024
Chi2	[-0.00995 , 0.00785]	0.95024
ChiMerge	[-0.0206 , 0.0016]	0.95024
ClusterAnalysis	[-0.0109 , 0.02315]	0.95024
DIBD	[0.01105 , 0.04655]	0.95024
Distance	[-0.00375 , 0.0047]	0.95024
EqualFrequency	[-0.0125 , 0.0053]	0.95024
EqualWidth	[-0.01055 , 0.00815]	0.95024
Extended Chi2	[-0.0038 , 0.02695]	0.95024
FFD	[-0.01585 , 0.0035]	0.95024
FUSINTER	[-0.018 , 0.0004]	0.95024
HDD	[-0.0076 , 0.0147]	0.95024
HellingerBD	[-0.00735 , 0.0179]	0.95024
Heter-Disc	[0.04835 , 0.1354]	0.95024
ID3	[-0.0088 , 0.02535]	0.95024
IDD	[0.001 , 0.04755]	0.95024
Khiops	[-0.0077 , 0.00785]	0.95024
Modified Chi2	[-0.0118 , 0.00445]	0.95024
MODL	[-0.01585 , 0.0034]	0.95024
MVD	[0.00575 , 0.08945]	0.95024
PKID	[-0.0194 , 0.00395]	0.95024
UCPD	[0.00085 , 0.035]	0.95024
USD	[-0.0114 , 0.01645]	0.95024
Zeta	[-0.016 , 0.00165]	0.95024

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

24 Detailed results for Modified Chi2

24.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	633.0	147.0	4.388E-4	0.000679
Ameva	381.5	398.5	≥ 0.2	1
Bayesian	686.5	133.5	9.773E-5	0.000192
CACC	530.0	290.0	0.1088	0.105302
CADD	807.5	12.5	1.437E-10	0
CAIM	389.0	391.0	≥ 0.2	1
Chi2	449.5	333.5	≥ 0.2	0.77936
ChiMerge	400.5	379.5	≥ 0.2	0.877576
ClusterAnalysis	541.5	238.5	0.03405	0.033598
DIBD	702.0	78.0	2.3E-6	0.000013
Distance	439.0	381.0	≥ 0.2	0.691723
EqualFrequency	403.0	377.0	≥ 0.2	0.850311
EqualWidth	443.0	337.0	≥ 0.2	0.45531
Extended Chi2	642.5	177.5	0.004361	0.005013
FFD	407.5	372.5	≥ 0.2	0.801328
FUSINTER	332.0	448.0	≥ 0.2	1
HDD	510.0	310.0	≥ 0.2	0.71198
HellingerBD	496.5	323.5	≥ 0.2	0.490126
Heter-Disc	787.0	33.0	5.844E-9	0
ID3	514.0	306.0	≥ 0.2	0.344109
IDD	581.5	198.5	0.006692	0.007274
Khiops	445.5	334.5	≥ 0.2	0.432913
MDLP	438.5	341.5	≥ 0.2	0.49335
MODL	383.0	437.0	≥ 0.2	1
MVD	697.0	123.0	4.73E-5	0.000111
PKID	357.0	423.0	≥ 0.2	1
UCPD	633.0	147.0	4.388E-4	0.000664
USD	509.5	310.5	0.18537	0.176715
Zeta	459.5	360.5	≥ 0.2	0.500823

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

24.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[0.0164 , 0.06795]	0.90276
Ameva	[-0.0066 , 0.00625]	0.90276
Bayesian	[0.01075 , 0.05]	0.90276
CACC	[-0.0002 , 0.01705]	0.90276
CADD	[0.10165 , 0.23455]	0.90276
CAIM	[-0.00545 , 0.0059]	0.90276
Chi2	[-0.0028 , 0.00845]	0.90276
ChiMerge	[-0.00515 , 0.0088]	0.90276
ClusterAnalysis	[0.0021 , 0.02245]	0.90276
DIBD	[0.0206 , 0.05295]	0.90276
Distance	[-0.0047 , 0.01115]	0.90276
EqualFrequency	[-0.00525 , 0.0097]	0.90276
EqualWidth	[-0.004 , 0.0141]	0.90276
Extended Chi2	[0.00445 , 0.02375]	0.90276
FFD	[-0.00385 , 0.00755]	0.90276
FUSINTER	[-0.0068 , 0.0033]	0.90276
HDD	[-0.00105 , 0.0168]	0.90276
HellingerBD	[-0.0021 , 0.02175]	0.90276
Heter-Disc	[0.0638 , 0.14965]	0.90276
ID3	[-0.0007 , 0.0183]	0.90276
IDD	[0.0054 , 0.0477]	0.90276
Khiops	[-0.0029 , 0.0097]	0.90276
MDLP	[-0.0035 , 0.00985]	0.90276
MODL	[-0.00665 , 0.0058]	0.90276
MVD	[0.0325 , 0.0882]	0.90276
PKID	[-0.00495 , 0.0032]	0.90276
UCPD	[0.0168 , 0.04095]	0.90276
USD	[-0.00095 , 0.01225]	0.90276
Zeta	[-0.0042 , 0.01175]	0.90276

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

α=0.95	Confidence interval	Exact confidence
1R	[0.01295 , 0.0747]	0.95024
Ameva	[-0.0079 , 0.00815]	0.95024
Bayesian	[0.0093 , 0.0525]	0.95024
CACC	[-0.00135 , 0.01945]	0.95024
CADD	[0.08935 , 0.25315]	0.95024
CAIM	[-0.00625 , 0.0072]	0.95024
Chi2	[-0.0039 , 0.01045]	0.95024
ChiMerge	[-0.0061 , 0.0104]	0.95024
ClusterAnalysis	[0.00095 , 0.0257]	0.95024
DIBD	[0.01875 , 0.05855]	0.95024
Distance	[-0.0057 , 0.0132]	0.95024
EqualFrequency	[-0.00615 , 0.0122]	0.95024
EqualWidth	[-0.0054 , 0.0167]	0.95024
Extended Chi2	[0.0033 , 0.02845]	0.95024
FFD	[-0.0046 , 0.0088]	0.95024
FUSINTER	[-0.0078 , 0.0055]	0.95024
HDD	[-0.00185 , 0.0195]	0.95024
HellingerBD	[-0.0035 , 0.02395]	0.95024
Heter-Disc	[0.05795 , 0.16195]	0.95024
ID3	[-0.00145 , 0.0231]	0.95024
IDD	[0.0037 , 0.05305]	0.95024
Khiops	[-0.00375 , 0.01135]	0.95024
MDLP	[-0.00445 , 0.0118]	0.95024
MODL	[-0.00795 , 0.00705]	0.95024
MVD	[0.0291 , 0.0948]	0.95024
PKID	[-0.0057 , 0.00425]	0.95024
UCPD	[0.0136 , 0.04505]	0.95024
USD	[-0.00175 , 0.01365]	0.95024
Zeta	[-0.0054 , 0.01395]	0.95024

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

25 Detailed results for MODL

25.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	673.0	147.0	2.332E-4	0.000389
Ameva	391.0	429.0	≥ 0.2	1
Bayesian	658.0	162.0	5.698E-4	0.000837
CACC	506.0	314.0	≥ 0.2	0.193852
CADD	805.0	15.0	2.492E-10	0
CAIM	436.0	384.0	≥ 0.2	0.721695
Chi2	416.5	403.5	≥ 0.2	1
ChiMerge	457.0	363.0	≥ 0.2	0.523173
ClusterAnalysis	487.5	332.5	≥ 0.2	0.293633
DIBD	715.0	105.0	1.221E-5	0.000039
Distance	491.0	289.0	0.16248	0.15448
EqualFrequency	446.5	373.5	≥ 0.2	1
EqualWidth	484.0	336.0	≥ 0.2	0.611102
Extended Chi2	579.5	200.5	0.007327	0.00769
FFD	399.0	381.0	≥ 0.2	0.893795
FUSINTER	303.5	479.5	≥ 0.2	1
HDD	525.0	255.0	0.06	0.058637
HellingerBD	478.0	305.0	≥ 0.2	0.47829
Heter-Disc	779.0	41.0	1.811E-8	0.000001
ID3	521.0	262.0	0.18154	0.174538
IDD	604.0	176.0	0.002242	0.002759
Khiops	459.5	360.5	≥ 0.2	0.878753
MDLP	508.5	311.5	0.18991000000000002	0.181819
Modified Chi2	437.0	383.0	≥ 0.2	1
MVD	661.0	159.0	4.794E-4	0.000724
PKID	387.0	433.0	≥ 0.2	1
UCPD	580.5	199.5	0.0070030000000000005	0.007584
USD	486.5	293.5	0.18242999999999998	0.175099
Zeta	433.0	347.0	≥ 0.2	0.543119

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

25.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[0.0174 , 0.0668]	0.90276
Ameva	[-0.01065 , 0.00815]	0.90276
Bayesian	[0.0101 , 0.03965]	0.90276
CACC	[-0.0015 , 0.01395]	0.90276
CADD	[0.09765 , 0.19605]	0.90276
CAIM	[-0.006 , 0.00835]	0.90276
Chi2	[-0.00875 , 0.0084]	0.90276
ChiMerge	[-0.00505 , 0.00815]	0.90276
ClusterAnalysis	[-0.00425 , 0.0246]	0.90276
DIBD	[0.02335 , 0.0523]	0.90276
Distance	[-0.00125 , 0.01585]	0.90276
EqualFrequency	[-0.00845 , 0.01245]	0.90276
EqualWidth	[-0.00765 , 0.0136]	0.90276
Extended Chi2	[0.00425 , 0.02715]	0.90276
FFD	[-0.00755 , 0.0073]	0.90276
FUSINTER	[-0.00795 , 0.0011]	0.90276
HDD	[0.00105 , 0.0164]	0.90276
HellingerBD	[-0.00215 , 0.01935]	0.90276
Heter-Disc	[0.0654 , 0.1335]	0.90276
ID3	[0.00055 , 0.0151]	0.90276
IDD	[0.0089 , 0.039]	0.90276
Khiops	[-0.00515 , 0.00945]	0.90276
MDLP	[-0.0021 , 0.0134]	0.90276
Modified Chi2	[-0.0058 , 0.00665]	0.90276
MVD	[0.02495 , 0.08545]	0.90276
PKID	[-0.00775 , 0.0038]	0.90276
UCPD	[0.0084 , 0.03605]	0.90276
USD	[-0.00105 , 0.0097]	0.90276
Zeta	[-0.00585 , 0.01035]	0.90276

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

α=0.95	Confidence interval	Exact confidence
1R	[0.01415 , 0.074]	0.95024
Ameva	[-0.0122 , 0.00975]	0.95024
Bayesian	[0.00845 , 0.04635]	0.95024
CACC	[-0.00295 , 0.0164]	0.95024
CADD	[0.08865 , 0.2032]	0.95024
CAIM	[-0.00765 , 0.0096]	0.95024
Chi2	[-0.0107 , 0.0098]	0.95024
ChiMerge	[-0.00695 , 0.0093]	0.95024
ClusterAnalysis	[-0.0059 , 0.02745]	0.95024
DIBD	[0.0211 , 0.05545]	0.95024
Distance	[-0.00245 , 0.0179]	0.95024
EqualFrequency	[-0.00965 , 0.01475]	0.95024
EqualWidth	[-0.01005 , 0.01825]	0.95024
Extended Chi2	[0.003 , 0.03185]	0.95024
FFD	[-0.0097 , 0.0081]	0.95024
FUSINTER	[-0.00945 , 0.00205]	0.95024
HDD	[-0.0004 , 0.01795]	0.95024
HellingerBD	[-0.00445 , 0.0224]	0.95024
Heter-Disc	[0.0614 , 0.14045]	0.95024
ID3	[-0.00035 , 0.01765]	0.95024
IDD	[0.00695 , 0.04575]	0.95024
Khiops	[-0.00675 , 0.01135]	0.95024
MDLP	[-0.0034 , 0.01585]	0.95024
Modified Chi2	[-0.00705 , 0.00795]	0.95024
MVD	[0.0212 , 0.09315]	0.95024
PKID	[-0.00915 , 0.00495]	0.95024
UCPD	[0.0047 , 0.03875]	0.95024
USD	[-0.00245 , 0.0111]	0.95024
Zeta	[-0.00815 , 0.0121]	0.95024

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

26 Detailed results for MVD

26.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	346.0	474.0	≥ 0.2	1
Ameva	116.0	704.0	≥ 0.2	1
Bayesian	272.5	547.5	≥ 0.2	1
CACC	171.0	612.0	≥ 0.2	1
CADD	635.0	185.0	0.01918	0.019647
CAIM	110.5	709.5	≥ 0.2	1
Chi2	135.0	685.0	≥ 0.2	1
ChiMerge	105.5	714.5	≥ 0.2	1
ClusterAnalysis	177.0	603.0	≥ 0.2	1
DIBD	330.0	490.0	≥ 0.2	1
Distance	233.5	586.5	≥ 0.2	1
EqualFrequency	161.0	619.0	≥ 0.2	1
EqualWidth	152.5	667.5	≥ 0.2	1
Extended Chi2	207.5	612.5	≥ 0.2	1
FFD	131.0	689.0	≥ 0.2	1
FUSINTER	106.0	714.0	≥ 0.2	1
HDD	150.0	630.0	≥ 0.2	1
HellingerBD	181.0	639.0	≥ 0.2	1
Heter-Disc	514.0	273.0	≥ 0.2	0.886335
ID3	150.0	630.0	≥ 0.2	1
IDD	245.0	538.0	≥ 0.2	1
Khiops	152.0	628.0	≥ 0.2	1
MDLP	233.0	587.0	≥ 0.2	1
Modified Chi2	123.0	697.0	≥ 0.2	1
MODL	159.0	661.0	≥ 0.2	1
PKID	100.0	720.0	≥ 0.2	1
UCPD	288.0	532.0	≥ 0.2	1
USD	133.0	647.0	≥ 0.2	1
Zeta	108.0	672.0	≥ 0.2	1

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

26.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[-0.03235 , 0.01215]	0.90276
Ameva	[-0.07485 , -0.0275]	0.90276
Bayesian	[-0.0569 , -0.00365]	0.90276
CACC	[-0.0635 , -0.01485]	0.90276
CADD	[0.024 , 0.09625]	0.90276
CAIM	[-0.0833 , -0.02665]	0.90276
Chi2	[-0.0891 , -0.03415]	0.90276
ChiMerge	[-0.0807 , -0.02735]	0.90276
ClusterAnalysis	[-0.07545 , -0.02265]	0.90276
DIBD	[-0.04225 , 0.0066]	0.90276
Distance	[-0.08145 , -0.01075]	0.90276
EqualFrequency	[-0.08335 , -0.01925]	0.90276
EqualWidth	[-0.09025 , -0.0255]	0.90276
Extended Chi2	[-0.07415 , -0.0143]	0.90276
FFD	[-0.0879 , -0.02365]	0.90276
FUSINTER	[-0.09195 , -0.03165]	0.90276
HDD	[-0.08075 , -0.0297]	0.90276
HellingerBD	[-0.07925 , -0.0175]	0.90276
Heter-Disc	[0 , 0.0543]	0.90276
ID3	[-0.08725 , -0.0316]	0.90276
IDD	[-0.048 , -0.00385]	0.90276
Khiops	[-0.08245 , -0.022]	0.90276
MDLP	[-0.08285 , -0.01075]	0.90276
Modified Chi2	[-0.0882 , -0.0325]	0.90276
MODL	[-0.08545 , -0.02495]	0.90276
PKID	[-0.09045 , -0.03065]	0.90276
UCPD	[-0.07395 , 0.00005]	0.90276
USD	[-0.09005 , -0.03495]	0.90276
Zeta	[-0.07865 , -0.0277]	0.90276

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

α=0.95	Confidence interval	Exact confidence
1R	[-0.04165 , 0.017]	0.95024
Ameva	[-0.08075 , -0.02325]	0.95024
Bayesian	[-0.0675 , 0.00135]	0.95024
CACC	[-0.07185 , -0.01075]	0.95024
CADD	[0.0193 , 0.11125]	0.95024
CAIM	[-0.09075 , -0.0235]	0.95024
Chi2	[-0.09725 , -0.02895]	0.95024
ChiMerge	[-0.08985 , -0.0248]	0.95024
ClusterAnalysis	[-0.0814 , -0.0162]	0.95024
DIBD	[-0.0495 , 0.01125]	0.95024
Distance	[-0.0904 , -0.0067]	0.95024
EqualFrequency	[-0.08975 , -0.0147]	0.95024
EqualWidth	[-0.09815 , -0.0215]	0.95024
Extended Chi2	[-0.08205 , -0.01045]	0.95024
FFD	[-0.09415 , -0.01815]	0.95024
FUSINTER	[-0.10005 , -0.027]	0.95024
HDD	[-0.0862 , -0.02545]	0.95024
HellingerBD	[-0.0889 , -0.0145]	0.95024
Heter-Disc	[-0.0021 , 0.06395]	0.95024
ID3	[-0.0936 , -0.0262]	0.95024
IDD	[-0.0567 , -0.0008]	0.95024
Khiops	[-0.08935 , -0.01885]	0.95024
MDLP	[-0.08945 , -0.00575]	0.95024
Modified Chi2	[-0.0948 , -0.0291]	0.95024
MODL	[-0.09315 , -0.0212]	0.95024
PKID	[-0.1 , -0.02815]	0.95024
UCPD	[-0.08265 , 0.0035]	0.95024
USD	[-0.0951 , -0.03105]	0.95024
Zeta	[-0.0862 , -0.0248]	0.95024

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

27 Detailed results for PKID

27.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	684.0	136.0	1.1536E-4	0.000225
Ameva	398.0	422.0	≥ 0.2	1
Bayesian	681.0	139.0	1.404E-4	0.000257
CACC	523.0	297.0	0.13156	0.127113
CADD	776.0	4.0	2.546E-11	0
CAIM	402.5	377.5	≥ 0.2	0.855543
Chi2	461.0	359.0	≥ 0.2	1
ChiMerge	435.0	385.0	≥ 0.2	0.73135
ClusterAnalysis	583.5	236.5	0.05214	0.05069
DIBD	710.0	70.0	1.0484E-6	0.000008
Distance	476.0	344.0	≥ 0.2	0.369794
EqualFrequency	438.0	382.0	≥ 0.2	1
EqualWidth	469.5	350.5	≥ 0.2	0.76624
Extended Chi2	631.5	188.5	0.002334	0.002799
FFD	504.0	316.0	≥ 0.2	1
FUSINTER	345.5	437.5	≥ 0.2	1
HDD	550.5	269.5	0.14642	0.139585
HellingerBD	550.5	269.5	≥ 0.2	0.312763
Heter-Disc	791.0	29.0	3.164E-9	0
ID3	547.5	237.5	≥ 0.2	0.200477
IDD	635.5	144.5	3.764E-4	0.000584
Khiops	391.0	392.0	≥ 0.2	1
MDLP	471.5	348.5	≥ 0.2	0.743298
Modified Chi2	423.0	357.0	≥ 0.2	0.637208
MODL	433.0	387.0	≥ 0.2	1
MVD	720.0	100.0	8.152E-6	0.00003
UCPD	653.5	166.5	0.00247	0.00302
USD	521.0	259.0	0.06824	0.06602
Zeta	439.5	340.5	≥ 0.2	0.483807

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

27.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[0.01455 , 0.06615]	0.90276
Ameva	[-0.00695 , 0.00825]	0.90276
Bayesian	[0.01285 , 0.04995]	0.90276
CACC	[-0.0006 , 0.01535]	0.90276
CADD	[0.10215 , 0.2244]	0.90276
CAIM	[-0.00455 , 0.0058]	0.90276
Chi2	[-0.00605 , 0.0075]	0.90276
ChiMerge	[-0.00535 , 0.0078]	0.90276
ClusterAnalysis	[0.0043 , 0.02645]	0.90276
DIBD	[0.02545 , 0.0594]	0.90276
Distance	[-0.0029 , 0.01555]	0.90276
EqualFrequency	[-0.0018 , 0.01285]	0.90276
EqualWidth	[-0.00335 , 0.01465]	0.90276
Extended Chi2	[0.0061 , 0.03695]	0.90276
FFD	[-0.00025 , 0.00505]	0.90276
FUSINTER	[-0.00465 , 0.00365]	0.90276
HDD	[0.001 , 0.02035]	0.90276
HellingerBD	[0.00045 , 0.0189]	0.90276
Heter-Disc	[0.0683 , 0.1419]	0.90276
ID3	[0.00155 , 0.0203]	0.90276
IDD	[0.01 , 0.044]	0.90276
Khiops	[-0.0029 , 0.00395]	0.90276
MDLP	[-0.003 , 0.0163]	0.90276
Modified Chi2	[-0.0032 , 0.00495]	0.90276
MODL	[-0.0038 , 0.00775]	0.90276
MVD	[0.03065 , 0.09045]	0.90276
UCPD	[0.0171 , 0.04495]	0.90276
USD	[0.00045 , 0.0147]	0.90276
Zeta	[-0.0045 , 0.01185]	0.90276

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

α=0.95	Confidence interval	Exact confidence
1R	[0.0125 , 0.07305]	0.95024
Ameva	[-0.008 , 0.01025]	0.95024
Bayesian	[0.01135 , 0.0537]	0.95024
CACC	[-0.0018 , 0.0182]	0.95024
CADD	[0.0899 , 0.2395]	0.95024
CAIM	[-0.0056 , 0.00675]	0.95024
Chi2	[-0.00715 , 0.00925]	0.95024
ChiMerge	[-0.00645 , 0.0093]	0.95024
ClusterAnalysis	[0.0027 , 0.02865]	0.95024
DIBD	[0.02275 , 0.0634]	0.95024
Distance	[-0.00405 , 0.02095]	0.95024
EqualFrequency	[-0.00225 , 0.0143]	0.95024
EqualWidth	[-0.00405 , 0.0173]	0.95024
Extended Chi2	[0.0045 , 0.0425]	0.95024
FFD	[-0.0011 , 0.00645]	0.95024
FUSINTER	[-0.00575 , 0.0052]	0.95024
HDD	[-0.00035 , 0.02255]	0.95024
HellingerBD	[0 , 0.0218]	0.95024
Heter-Disc	[0.06305 , 0.1545]	0.95024
ID3	[0.00075 , 0.0239]	0.95024
IDD	[0.0081 , 0.04895]	0.95024
Khiops	[-0.00355 , 0.00525]	0.95024
MDLP	[-0.00395 , 0.0194]	0.95024
Modified Chi2	[-0.00425 , 0.0057]	0.95024
MODL	[-0.00495 , 0.00915]	0.95024
MVD	[0.02815 , 0.1]	0.95024
UCPD	[0.0136 , 0.0479]	0.95024
USD	[-0.00045 , 0.016]	0.95024
Zeta	[-0.00625 , 0.0148]	0.95024

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

28 Detailed results for UCPD

28.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	473.0	347.0	≥ 0.2	0.39337
Ameva	202.0	618.0	≥ 0.2	1
Bayesian	451.0	369.0	≥ 0.2	0.576331
CACC	288.0	492.0	≥ 0.2	1
CADD	757.0	63.0	2.536E-7	0.000003
CAIM	166.5	653.5	≥ 0.2	1
Chi2	187.0	593.0	≥ 0.2	1
ChiMerge	184.0	636.0	≥ 0.2	1
ClusterAnalysis	279.5	500.5	≥ 0.2	1
DIBD	504.0	316.0	≥ 0.2	0.202491
Distance	263.0	517.0	≥ 0.2	1
EqualFrequency	169.5	650.5	≥ 0.2	1
EqualWidth	195.5	584.5	≥ 0.2	1
Extended Chi2	350.0	470.0	≥ 0.2	1
FFD	143.5	636.5	≥ 0.2	1
FUSINTER	127.0	653.0	≥ 0.2	1
HDD	294.0	486.0	≥ 0.2	1
HellingerBD	252.0	568.0	≥ 0.2	1
Heter-Disc	758.0	62.0	2.276E-7	0.000003
ID3	306.0	474.0	≥ 0.2	1
IDD	393.0	427.0	≥ 0.2	1
Khiops	220.5	599.5	≥ 0.2	1
MDLP	257.0	563.0	≥ 0.2	1
Modified Chi2	147.0	633.0	≥ 0.2	1
MODL	199.5	580.5	≥ 0.2	1
MVD	532.0	288.0	0.1029	0.099649
PKID	166.5	653.5	≥ 0.2	1
USD	279.0	541.0	≥ 0.2	1
Zeta	187.5	632.5	≥ 0.2	1

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

28.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[-0.01195 , 0.05185]	0.90276
Ameva	[-0.03815 , -0.00995]	0.90276
Bayesian	[-0.0107 , 0.0218]	0.90276
CACC	[-0.0253 , 0.0028]	0.90276
CADD	[0.0788 , 0.18285]	0.90276
CAIM	[-0.03925 , -0.01315]	0.90276
Chi2	[-0.0365 , -0.00775]	0.90276
ChiMerge	[-0.04005 , -0.0111]	0.90276
ClusterAnalysis	[-0.02275 , 0.0011]	0.90276
DIBD	[-0.00275 , 0.02495]	0.90276
Distance	[-0.031 , -0.0009]	0.90276
EqualFrequency	[-0.0391 , -0.0116]	0.90276
EqualWidth	[-0.0362 , -0.0077]	0.90276
Extended Chi2	[-0.02215 , 0.0085]	0.90276
FFD	[-0.0439 , -0.01545]	0.90276
FUSINTER	[-0.04535 , -0.0181]	0.90276
HDD	[-0.02595 , 0.00285]	0.90276
HellingerBD	[-0.02885 , -0.0029]	0.90276
Heter-Disc	[0.04365 , 0.10125]	0.90276
ID3	[-0.0237 , 0.0048]	0.90276
IDD	[-0.02265 , 0.0218]	0.90276
Khiops	[-0.0327 , -0.0058]	0.90276
MDLP	[-0.0316 , -0.00305]	0.90276
Modified Chi2	[-0.04095 , -0.0168]	0.90276
MODL	[-0.03605 , -0.0084]	0.90276
MVD	[-0.00005 , 0.07395]	0.90276
PKID	[-0.04495 , -0.0171]	0.90276
USD	[-0.0284 , -0.0012]	0.90276
Zeta	[-0.03715 , -0.01045]	0.90276

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

α=0.95	Confidence interval	Exact confidence
1R	[-0.0156 , 0.0617]	0.95024
Ameva	[-0.0411 , -0.0071]	0.95024
Bayesian	[-0.0128 , 0.0248]	0.95024
CACC	[-0.0279 , 0.0051]	0.95024
CADD	[0.0713 , 0.1912]	0.95024
CAIM	[-0.0421 , -0.00995]	0.95024
Chi2	[-0.03975 , -0.00525]	0.95024
ChiMerge	[-0.0428 , -0.0081]	0.95024
ClusterAnalysis	[-0.0249 , 0.00285]	0.95024
DIBD	[-0.0049 , 0.0272]	0.95024
Distance	[-0.0346 , 0.00145]	0.95024
EqualFrequency	[-0.04115 , -0.00885]	0.95024
EqualWidth	[-0.03885 , -0.0056]	0.95024
Extended Chi2	[-0.02485 , 0.01125]	0.95024
FFD	[-0.0464 , -0.01325]	0.95024
FUSINTER	[-0.0482 , -0.01515]	0.95024
HDD	[-0.03 , 0.00645]	0.95024
HellingerBD	[-0.0305 , -0.0011]	0.95024
Heter-Disc	[0.04075 , 0.1107]	0.95024
ID3	[-0.02775 , 0.0067]	0.95024
IDD	[-0.0258 , 0.0304]	0.95024
Khiops	[-0.03525 , -0.00345]	0.95024
MDLP	[-0.035 , -0.00085]	0.95024
Modified Chi2	[-0.04505 , -0.0136]	0.95024
MODL	[-0.03875 , -0.0047]	0.95024
MVD	[-0.0035 , 0.08265]	0.95024
PKID	[-0.0479 , -0.0136]	0.95024
USD	[-0.0302 , 0.00205]	0.95024
Zeta	[-0.03965 , -0.0086]	0.95024

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

29 Detailed results for USD

29.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	539.5	240.5	0.03659	0.036002
Ameva	345.0	435.0	≥ 0.2	1
Bayesian	689.5	130.5	2.896E-4	0.000476
CACC	402.0	378.0	≥ 0.2	0.861522
CADD	813.0	7.0	3.456E-11	0
CAIM	357.0	463.0	≥ 0.2	1
Chi2	360.0	460.0	≥ 0.2	1
ChiMerge	378.0	442.0	≥ 0.2	1
ClusterAnalysis	453.0	330.0	≥ 0.2	0.739966
DIBD	607.5	212.5	0.00711	0.007679
Distance	379.5	400.5	≥ 0.2	1
EqualFrequency	355.0	425.0	≥ 0.2	1
EqualWidth	340.0	440.0	≥ 0.2	1
Extended Chi2	502.0	278.0	0.12056	0.11643
FFD	303.5	476.5	≥ 0.2	1
FUSINTER	250.0	530.0	≥ 0.2	1
HDD	529.5	290.5	≥ 0.2	0.243035
HellingerBD	383.5	396.5	≥ 0.2	1
Heter-Disc	747.0	73.0	7.138E-7	0.000006
ID3	539.0	244.0	0.10706	0.101947
IDD	520.0	300.0	0.14234	0.137474
Khiops	366.5	453.5	≥ 0.2	1
MDLP	385.0	435.0	≥ 0.2	1
Modified Chi2	310.5	509.5	≥ 0.2	1
MODL	293.5	486.5	≥ 0.2	1
MVD	647.0	133.0	1.8004E-4	0.000319
PKID	259.0	521.0	≥ 0.2	1
UCPD	541.0	279.0	0.07932	0.076643
Zeta	372.0	408.0	≥ 0.2	1

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

29.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[0.00575 , 0.06725]	0.90276
Ameva	[-0.01365 , 0.0063]	0.90276
Bayesian	[0.0073 , 0.02175]	0.90276
CACC	[-0.009 , 0.01165]	0.90276
CADD	[0.08925 , 0.1987]	0.90276
CAIM	[-0.0141 , 0.00365]	0.90276
Chi2	[-0.01235 , 0.00545]	0.90276
ChiMerge	[-0.01205 , 0.0055]	0.90276
ClusterAnalysis	[-0.0039 , 0.0106]	0.90276
DIBD	[0.011 , 0.04615]	0.90276
Distance	[-0.0148 , 0.01305]	0.90276
EqualFrequency	[-0.01445 , 0.00685]	0.90276
EqualWidth	[-0.01405 , 0.00555]	0.90276
Extended Chi2	[-0.00025 , 0.0234]	0.90276
FFD	[-0.01255 , 0.0016]	0.90276
FUSINTER	[-0.01745 , -0.0013]	0.90276
HDD	[-0.0001 , 0.011]	0.90276
HellingerBD	[-0.0117 , 0.00975]	0.90276
Heter-Disc	[0.054 , 0.13395]	0.90276
ID3	[0.00045 , 0.0075]	0.90276
IDD	[-0.0014 , 0.03835]	0.90276
Khiops	[-0.0092 , 0.00465]	0.90276
MDLP	[-0.01405 , 0.0089]	0.90276
Modified Chi2	[-0.01225 , 0.00095]	0.90276
MODL	[-0.0097 , 0.00105]	0.90276
MVD	[0.03495 , 0.09005]	0.90276
PKID	[-0.0147 , -0.00045]	0.90276
UCPD	[0.0012 , 0.0284]	0.90276
Zeta	[-0.00985 , 0.0066]	0.90276

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

α=0.95	Confidence interval	Exact confidence
1R	[0.0016 , 0.0759]	0.95024
Ameva	[-0.0157 , 0.00855]	0.95024
Bayesian	[0.0063 , 0.02495]	0.95024
CACC	[-0.0111 , 0.0131]	0.95024
CADD	[0.0829 , 0.2169]	0.95024
CAIM	[-0.01695 , 0.0055]	0.95024
Chi2	[-0.01505 , 0.0065]	0.95024
ChiMerge	[-0.01415 , 0.0081]	0.95024
ClusterAnalysis	[-0.00515 , 0.01305]	0.95024
DIBD	[0.00765 , 0.05235]	0.95024
Distance	[-0.0174 , 0.01635]	0.95024
EqualFrequency	[-0.016 , 0.00975]	0.95024
EqualWidth	[-0.01575 , 0.00775]	0.95024
Extended Chi2	[-0.00255 , 0.02585]	0.95024
FFD	[-0.014 , 0.00295]	0.95024
FUSINTER	[-0.01885 , -0.00025]	0.95024
HDD	[-0.00085 , 0.01255]	0.95024
HellingerBD	[-0.0136 , 0.01235]	0.95024
Heter-Disc	[0.0493 , 0.14125]	0.95024
ID3	[0.00015 , 0.00835]	0.95024
IDD	[-0.0036 , 0.0447]	0.95024
Khiops	[-0.0109 , 0.00645]	0.95024
MDLP	[-0.01645 , 0.0114]	0.95024
Modified Chi2	[-0.01365 , 0.00175]	0.95024
MODL	[-0.0111 , 0.00245]	0.95024
MVD	[0.03105 , 0.0951]	0.95024
PKID	[-0.016 , 0.00045]	0.95024
UCPD	[-0.00205 , 0.0302]	0.95024
Zeta	[-0.0112 , 0.008]	0.95024

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

30 Detailed results for Zeta

30.1 Results

VS	R^+	R^-	Exact P-value	Asymptotic P-value
1R	656.0	164.0	6.384E-4	0.000904
Ameva	397.5	422.5	≥ 0.2	1
Bayesian	572.5	207.5	0.00998	0.010521
CACC	514.5	265.5	0.08357	0.080564
CADD	820.0	0.0	1.819E-12	0
CAIM	382.5	437.5	≥ 0.2	1
Chi2	403.5	376.5	≥ 0.2	0.844299
ChiMerge	316.0	467.0	≥ 0.2	1
ClusterAnalysis	532.5	287.5	0.10147	0.097709
DIBD	684.0	96.0	1.1458E-5	0.00004
Distance	510.0	270.0	0.09568	0.092651
EqualFrequency	424.5	395.5	≥ 0.2	1
EqualWidth	445.5	374.5	≥ 0.2	1
Extended Chi2	563.5	256.5	0.03878	0.038131
FFD	393.0	387.0	≥ 0.2	0.960977
FUSINTER	297.0	483.0	≥ 0.2	1
HDD	501.0	319.0	≥ 0.2	0.217968
HellingerBD	511.0	309.0	0.1787	0.171755
Heter-Disc	801.0	19.0	5.584E-10	0
ID3	481.0	339.0	≥ 0.2	0.336526
IDD	563.5	216.5	0.014585	0.014999
Khiops	416.0	404.0	≥ 0.2	0.930379
MDLP	509.0	271.0	0.09856	0.095391
Modified Chi2	360.5	459.5	≥ 0.2	1
MODL	347.0	433.0	≥ 0.2	1
MVD	672.0	108.0	3.008E-5	0.000081
PKID	340.5	439.5	≥ 0.2	1
UCPD	632.5	187.5	0.002221	0.002678
USD	408.0	372.0	≥ 0.2	0.796278

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

30.2 Confidence intervals for Median of diferences

α=0.90	Confidence interval	Exact confidence
1R	[0.0162 , 0.06495]	0.90276
Ameva	[-0.00675 , 0.00505]	0.90276
Bayesian	[0.0092 , 0.0456]	0.90276
CACC	[0.00045 , 0.02015]	0.90276
CADD	[0.08685 , 0.21075]	0.90276
CAIM	[-0.00545 , 0.00275]	0.90276
Chi2	[-0.01 , 0.01115]	0.90276
ChiMerge	[-0.0091 , 0.0023]	0.90276
ClusterAnalysis	[-0.0002 , 0.0221]	0.90276
DIBD	[0.0198 , 0.04935]	0.90276
Distance	[0.0004 , 0.015]	0.90276
EqualFrequency	[-0.00735 , 0.009]	0.90276
EqualWidth	[-0.005 , 0.00775]	0.90276
Extended Chi2	[0.0016 , 0.0237]	0.90276
FFD	[-0.00845 , 0.00695]	0.90276
FUSINTER	[-0.01165 , 0.00145]	0.90276
HDD	[-0.00215 , 0.01135]	0.90276
HellingerBD	[-0.0015 , 0.0158]	0.90276
Heter-Disc	[0.0616 , 0.14255]	0.90276
ID3	[-0.0041 , 0.01325]	0.90276
IDD	[0.00525 , 0.04615]	0.90276
Khiops	[-0.0057 , 0.00745]	0.90276
MDLP	[0.0001 , 0.0143]	0.90276
Modified Chi2	[-0.01175 , 0.0042]	0.90276
MODL	[-0.01035 , 0.00585]	0.90276
MVD	[0.0277 , 0.07865]	0.90276
PKID	[-0.01185 , 0.0045]	0.90276
UCPD	[0.01045 , 0.03715]	0.90276
USD	[-0.0066 , 0.00985]	0.90276

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

α=0.95	Confidence interval	Exact confidence
1R	[0.01345 , 0.07245]	0.95024
Ameva	[-0.0075 , 0.0061]	0.95024
Bayesian	[0.00675 , 0.04905]	0.95024
CACC	[-0.00075 , 0.0229]	0.95024
CADD	[0.08015 , 0.22405]	0.95024
CAIM	[-0.00625 , 0.0033]	0.95024
Chi2	[-0.0122 , 0.0126]	0.95024
ChiMerge	[-0.01 , 0.0032]	0.95024
ClusterAnalysis	[-0.0026 , 0.0247]	0.95024
DIBD	[0.0181 , 0.054]	0.95024
Distance	[-0.00135 , 0.0163]	0.95024
EqualFrequency	[-0.00855 , 0.0102]	0.95024
EqualWidth	[-0.0063 , 0.0089]	0.95024
Extended Chi2	[0.0005 , 0.0265]	0.95024
FFD	[-0.01015 , 0.0081]	0.95024
FUSINTER	[-0.01305 , 0.00295]	0.95024
HDD	[-0.0045 , 0.01315]	0.95024
HellingerBD	[-0.00255 , 0.0183]	0.95024
Heter-Disc	[0.0579 , 0.15125]	0.95024
ID3	[-0.0064 , 0.01525]	0.95024
IDD	[0.00335 , 0.0521]	0.95024
Khiops	[-0.00685 , 0.0093]	0.95024
MDLP	[-0.00165 , 0.016]	0.95024
Modified Chi2	[-0.01395 , 0.0054]	0.95024
MODL	[-0.0121 , 0.00815]	0.95024
MVD	[0.0248 , 0.0862]	0.95024
PKID	[-0.0148 , 0.00625]	0.95024
UCPD	[0.0086 , 0.03965]	0.95024
USD	[-0.008 , 0.0112]	0.95024

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