NIST Decision Tree Report

Summary

Include	Laboratory	Result	Uncertainty	DegreesOfFreedom
TRUE	IRMM	34.30	1.03	60
TRUE	KRISS	32.90	0.69	4
TRUE	NARL	34.53	0.83	18
TRUE	NIST	32.42	0.29	2
TRUE	NMIJ	31.90	0.40	13
TRUE	NRC	35.80	0.38	60

Date: 2022-05-12
Selected Procedure: Adaptive Weighted Average
Consensus estimate: 33.6
Standard uncertainty: 0.745
Standard uncertainty (using parametric bootstrap): 0.7518
95% coverage interval: (32.14, 35.06)
95% coverage interval (using parametric bootstrap): (32.03, 35.17)
Dark uncertainty (tau): 1.711

Decision Tree Hypothesis test results

Cochran's test for Homogeneity:
p-value: $p < 0.001$
$Q = 68.22$ (Reference Distribution: Chi-Square with 5 Degrees of Freedom)
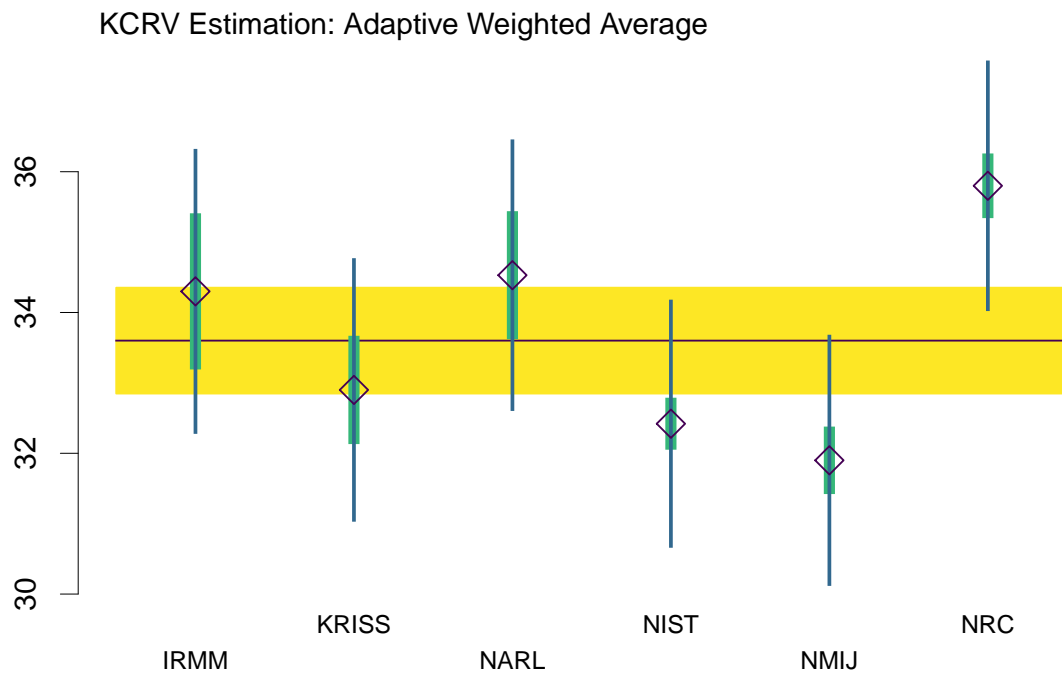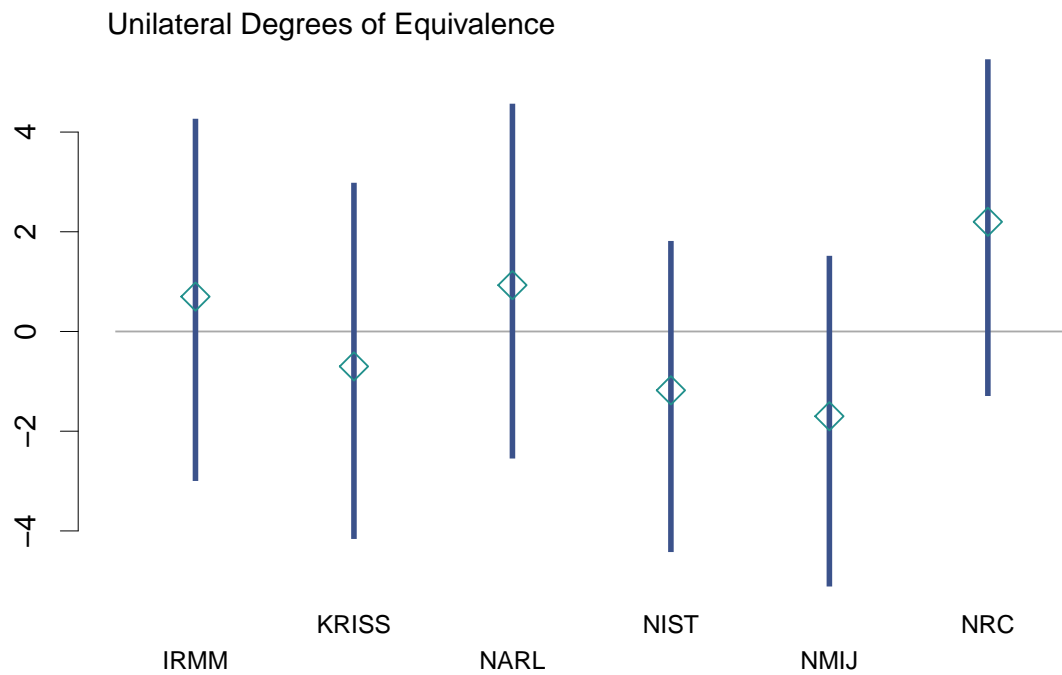tau est. $= 1.711$
tau/median(x) $= 0.05093$
tau/median(u) $= 3.14$

Shapiro-Wilk test for Normality: $p = 0.5301$

Miao-Gel-Gastwirth test of Symmetry: $p = 0.9374$

Plots

KCRV Estimation: Adaptive Weighted Average

Unilateral Degrees of Equivalence

	Lab	DoE.x	DoE.U95	DoE.Lwr	DoE.Upr
IRMM	IRMM	0.6996	3.594	-2.942	4.211
KRISS	KRISS	-0.7004	3.498	-4.105	2.927
NARL	NARL	0.9296	3.556	-2.492	4.513
NIST	NIST	-1.1800	3.144	-4.368	1.760
NMIJ	NMIJ	-1.7000	3.296	-5.059	1.462
NRC	NRC	2.2000	3.329	-1.238	5.404