

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: 2022-07-12

Selected Procedure: Adaptive Weighted Average

Consensus estimate: 33.6

Standard uncertainty: 0.745

Standard uncertainty (using parametric bootstrap): 0.7308

95% coverage interval: (32.31, 34.87)

95% coverage interval (using parametric bootstrap): (32.13, 35.07)

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

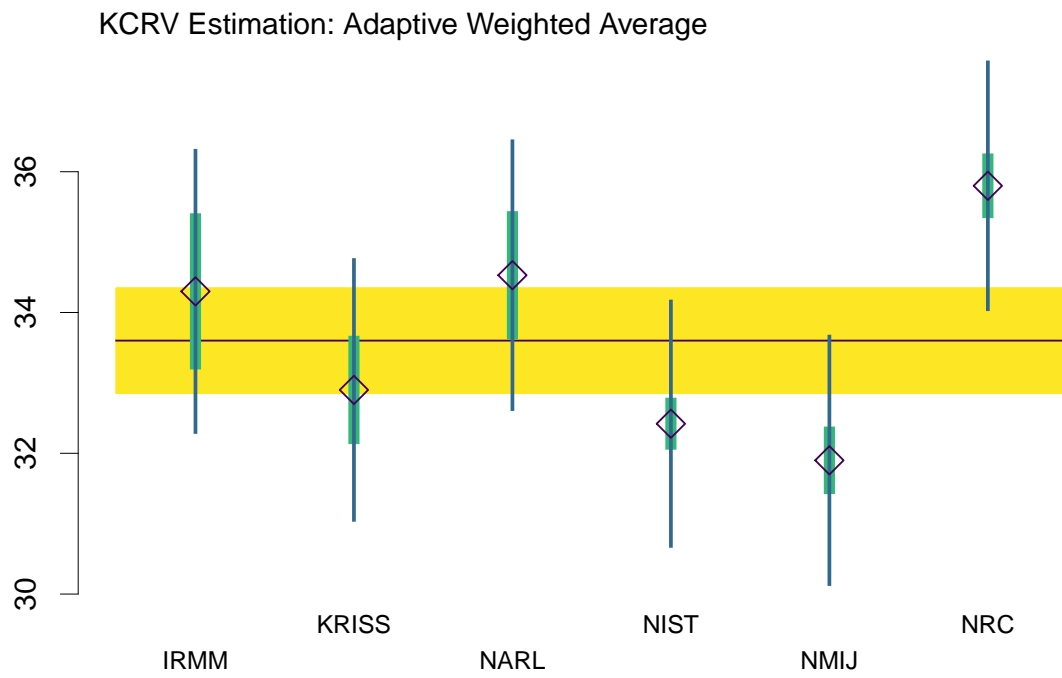
tau/median(x) = 0.05093

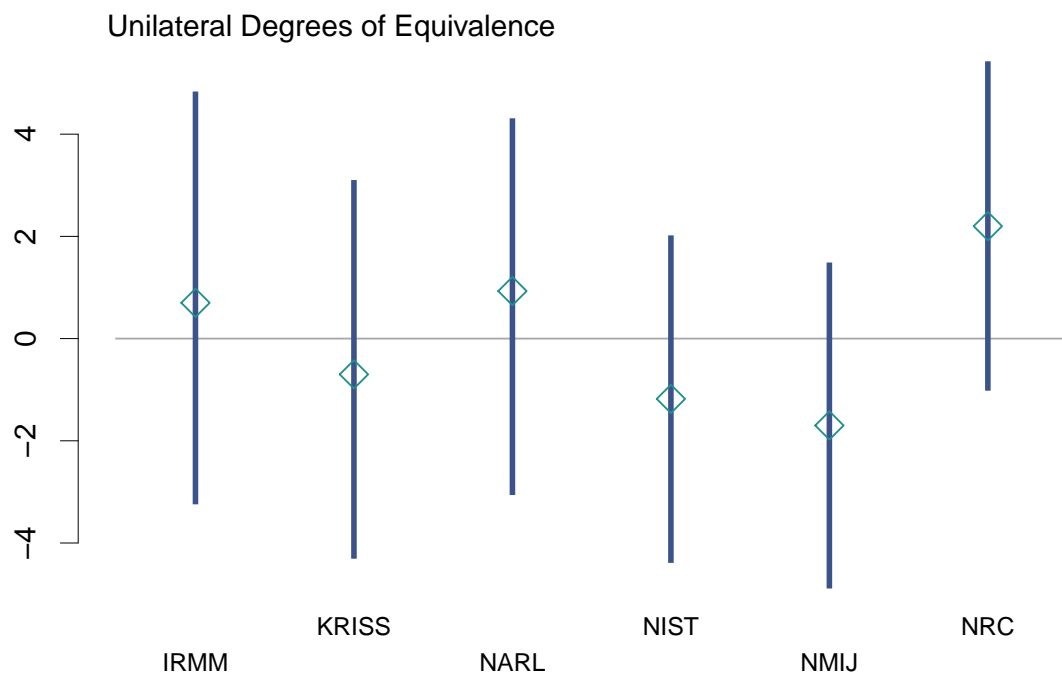
tau/median(u) = 3.14

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

Miao-Gel-Gastwirth test of Symmetry: $p = 0.9416$

Plots





	Lab	DoE.x	DoE.U95	DoE.Lwr	DoE.Upr
IRMM	IRMM	0.6996	3.925	-3.1890	4.780
KRISS	KRISS	-0.7004	3.685	-4.2530	3.048
NARL	NARL	0.9296	3.633	-3.0060	4.256
NIST	NIST	-1.1800	3.151	-4.3350	1.965
NMIJ	NMIJ	-1.7000	3.138	-4.8360	1.434
NRC	NRC	2.2000	3.170	-0.9652	5.372