

Robust Tests of Equality of Means - i\* and use cases, creation task

		Statistic <sup>a</sup>	df1	df2	Sig.
Precision	Welch	23.874	3	90.492	.000
Recall	Welch	13.391	3	90.326	.000
FMeasure	Welch	32.399	3	87.793	.000
Duration	Welch	114.955	3	87.636	.000
FirstActDet	Welch	160.872	3	88.168	.000
LastActDet	Welch	88.720	3	87.834	.000
ProcDur	Welch	18.991	3	91.531	.000
FixRel	Welch	1133.726	3	89.714	.000
FixIrrel	Welch	64.368	3	85.925	.000
AvDurRelFix	Welch	367.210	3	91.030	.000
AvDurIrrelFix	Welch	100.849	3	91.209	.000
TotSac	Welch	114.676	3	91.200	.000
Sac2Key	Welch	715.014	3	91.634	.000
AvAttention	Welch	36.195	3	90.232	.000
AvMentWL	Welch	53.750	3	91.612	.000
AvFam	Welch	52.710	3	89.798	.000
AvSCL	Welch	37.517	3	90.468	.000
HRVar_RMSSD	Welch	2.681	3	90.555	.052
HRVar_NN50	Welch	.315	3	90.949	.814
NASA_MD	Welch	118.360	3	91.254	.000
NASA_PD	Welch	.496	3	91.072	.686
NASA_TD	Welch	23.379	3	90.490	.000
NASA_Performance	Welch	12.665	3	91.502	.000
NASA_Effort	Welch	53.410	3	91.393	.000
NASA_Frustration	Welch	32.685	3	92.215	.000
NASA_Score	Welch	35.708	3	90.782	.000

a. Asymptotically F distributed.

**Robust Tests of Equality of Means - i\* and use cases,  
modification task**

		Statistic <sup>a</sup>	df1	df2	Sig.
Precision	Welch	16.902	3	91.174	.000
Recall	Welch	6.356	3	90.144	.001
FMeasure	Welch	17.859	3	90.769	.000
Duration	Welch	114.830	3	88.443	.000
FirstActDet	Welch	140.059	3	88.116	.000
LastActDet	Welch	104.005	3	88.872	.000
ProcDur	Welch	27.488	3	91.527	.000
FixRel	Welch	1278.833	3	89.806	.000
FixIrrel	Welch	57.262	3	86.730	.000
AvDurRelFix	Welch	211.029	3	91.322	.000
AvDurIrrelFix	Welch	81.383	3	91.407	.000
TotSac	Welch	114.254	3	91.365	.000
Sac2Key	Welch	553.533	3	91.390	.000
AvAttention	Welch	2.267	3	89.973	.086
AvMentWL	Welch	2.076	3	91.204	.109
AvFam	Welch	36.193	3	90.322	.000
AvSCL	Welch	33.203	3	90.594	.000
HRVar_RMSSD	Welch	3.300	3	90.825	.024
HRVar_NN50	Welch	.803	3	90.881	.495
NASA_MD	Welch	107.386	3	91.846	.000
NASA_PD	Welch	3.441	3	90.827	.020
NASA_TD	Welch	23.787	3	91.101	.000
NASA_Performance	Welch	11.631	3	92.025	.000
NASA_Effort	Welch	52.284	3	91.824	.000
NASA_Frustration	Welch	34.280	3	92.031	.000
NASA_Score	Welch	43.249	3	91.870	.000

a. Asymptotically F distributed.

**Robust Tests of Equality of Means - i\* and use cases,  
understanding task**

		Statistic <sup>a</sup>	df1	df2	Sig.
Precision	Welch	17.824	3	85.014	.000
Recall	Welch	8.555	3	84.329	.000
FMeasure	Welch	17.245	3	85.463	.000
Duration	Welch	187.553	3	82.610	.000
FirstActDet	Welch	154.065	3	80.877	.000
LastActDet	Welch	183.778	3	83.054	.000
ProcDur	Welch	12.009	3	86.293	.000
FixRel	Welch	1823.779	3	86.453	.000
FixIrrel	Welch	88.562	3	77.888	.000
AvDurRelFix	Welch	116.273	3	86.539	.000
AvDurIrrelFix	Welch	73.211	3	86.350	.000
TotSac	Welch	2.301	3	86.643	.083
Sac2Key	Welch	649.423	3	86.506	.000
AvAttention	Welch	4.169	3	86.270	.008
AvMentWL	Welch	2.162	3	85.234	.098
AvFam	Welch	43.856	3	86.429	.000
AvSCL	Welch	9.166	3	86.586	.000
HRVar_RMSSD	Welch	1.539	3	86.563	.210
HRVar_NN50	Welch	.504	3	86.639	.681
NASA_MD	Welch	96.042	3	86.610	.000
NASA_PD	Welch	2.445	3	84.300	.070
NASA_TD	Welch	9.274	3	85.608	.000
NASA_Performance	Welch	4.502	3	85.026	.006
NASA_Effort	Welch	51.081	3	86.615	.000
NASA_Frustration	Welch	16.190	3	86.196	.000
NASA_Score	Welch	28.266	3	85.214	.000

a. Asymptotically F distributed.

Robust Tests of Equality of Means - i\* and use cases, reviewing task

		Statistic <sup>a</sup>	df1	df2	Sig.
Precision	Welch	38.070	3	86.102	.000
Recall	Welch	28.043	3	84.932	.000
FMeasure	Welch	58.145	3	85.136	.000
Duration	Welch	284.535	3	80.075	.000
FirstActDet	Welch	145.444	3	81.400	.000
LastActDet	Welch	258.959	3	80.379	.000
ProcDur	Welch	12.092	3	83.486	.000
FixRel	Welch	1156.779	3	86.401	.000
FixIrrel	Welch	62.805	3	82.216	.000
AvDurRelFix	Welch	638.579	3	83.341	.000
AvDurIrrelFix	Welch	158.675	3	83.910	.000
TotSac	Welch	135.800	3	86.651	.000
Sac2Key	Welch	951.456	3	86.373	.000
AvAttention	Welch	14.314	3	85.779	.000
AvMentWL	Welch	22.929	3	85.680	.000
AvFam	Welch	19.263	3	85.975	.000
AvSCL	Welch	40.787	3	86.428	.000
HRVar_RMSSD	Welch	3.075	3	86.571	.032
HRVar_NN50	Welch	6.639	3	86.659	.000
NASA_MD	Welch	67.245	3	86.088	.000
NASA_PD	Welch	.876	3	86.406	.457
NASA_TD	Welch	25.512	3	85.289	.000
NASA_Performance	Welch	13.133	3	85.900	.000
NASA_Effort	Welch	28.473	3	86.108	.000
NASA_Frustration	Welch	32.155	3	85.990	.000
NASA_Score	Welch	25.682	3	85.479	.000

a. Asymptotically F distributed.