Erratum: Evaluating Data-type Heterogeneity in Interactive Visual Analyses with Parallel Axes

In the article by José et al. [JL22], values within Tables 6 and 7 are incorrect.

Incorrect version was:

Table 6: P-*values and effect size for hypotheses related to accuracy. For* p-*values, green denotes that the hypothesized relationship is maintained, while for effect size, green denotes a large effect size (≥ 3) using odds ratio as effect size index [SF12]. *A relationship Coor-PCP $\succ$ HPCP was observed.*

Objectivity	Hypotheses	Relationships			
Objective	**H1**	Discrete $\succeq$ Hybrid	Hybrid $\succ$ Numerical		
	p-value	0.8,1.0,0.60.9075	0.8,1.0,0.63.7e$-$10		
	effect size	0.7321	0.8,1.0,0.6 9.8043		
Objective	**H2**	HPCP $\succeq$ Coor-PCP	Coor-PCP $\succeq$ PS	PS $\succ$ PCP	PCP $\succeq$ MCA
	p-value	0.8,1.0,0.6 0.6726	0.8,1.0,0.6 1	0.8,1.0,0.60.009796	0.8,1.0,0.60.006119
	effect size	2.0975	1	0.8,1.0,0.65.1250	0.8,1.0,0.63.625
Mixed objectivity	**H5**	Discrete $\succeq$ Hybrid	Hybrid $\succ$ Numerical		
	p-value	0.8,1.0,0.60.1249	0.5		
	effect size	1.7272	1.670		
Mixed objectivity	**H6**	HPCP $\succeq$ Coor-PCP	Coor-PCP $\succeq$ PS	PS $\succ$ PCP	PCP $\succeq$ MCA
	p-value	0.0446/0.9777*	0.8,1.0,0.6 0.8511	0.2881	0.8,1.0,0.60.2733
	effect size	0.444	0.8681	1.3208	1.598
Subjective queries	**H9**	Discrete $\succeq$ Hybrid	Hybrid $\succ$ Numerical		
	p-value	0.8,1.0,0.6 0.5905	1		
	effect size	1.4201	0.6538		
Subjective queries	**H10**	HPCP $\succeq$ Coor-PCP	Coor-PCP $\succeq$ PS	PS $\succ$ PCP	PCP $\succeq$ MCA
	p-value	0.8,1.0,0.60.279	0.8,1.0,0.6 1	0.4216	0.8,1.0,0.6 0.7842
	effect size	2.1029	1	0.5604	1.3508

Table 7: P-*values and effect size for hypotheses related to timing. For* p-*values green denotes that the hypothesized relationship is maintained, while for effect size, green denotes a large effect size (≥ 0.8) using Cohen's* d *index for computing effect size [SF12, Coh13].*

Objectivity	Hypotheses	Relationships			
Objective	**H3**	Hybrid ≻ Numerical	Numerical ⪰ Discrete		
	p-value	0.8,1.0,0.6 7.43e−5	0.8,1.0,0.60.3338		
	effect size	0.6675	0.2486		
Objective	**H4**	HPCP ⪰ Coor-PCP	Coor-PCP ≻ PCP	PCP ⪰ MCA	MCA ⪰ PS
	p-value	0.8,1.0,0.6 0.9957	0.8,1.0,0.6 0.0065	0.8,1.0,0.60.9462114	0.8,1.0,0.60.9851
	effect size	0.0877	0.6236	0.339	0.0411
Mixed objectivity	**H7**	Hybrid ≻ Numerical	Numerical ⪰ Discrete		
	p-value	0.8,1.0,0.6 0.0011	0.8,1.0,0.6 0.0757167		
	effect size	0.5969	0.3992		
Mixed objectivity	**H8**	HPCP ⪰ Coor-PCP	Coor-PCP ≻ PCP	PCP ⪰ MCA	MCA ⪰ PS
	p-value	0.8,1.0,0.60.98317	0.8,1.0,0.60.0599	0.8,1.0,0.60.9947	0.8,1.0,0.6 0.2631
	effect size	0.1876	0.7094	0.0981	0.4628
Subjective queries	**H11**	Hybrid ≻ Numerical	Numerical ⪰ Discrete		
	p-value	0.8,1.0,0.6 0.0205	0.8,1.0,0.60.8557		
	effect size	0.5388	0.1271		
Subjective queries	**H12**	HPCP ⪰ Coor-PCP	Coor-PCP ≻ PCP	PCP ⪰ MCA	MCA ⪰ PS
	p-value	0.8,1.0,0.6 0.9919	0.1208	0.8,1.0,0.60.4598	0.8,1.0,0.60.6959
	effect size	0.2698	0.6872	0.4686	0.3978

The correct version is:

Table 6: P-*values and effect size for hypotheses related to accuracy. For* p-*values, green denotes that the hypothesized relationship is maintained, while for effect size, green denotes a large effect size (≥3) using odds ratio as effect size index [SF12]. *A relationship Coor-PCP ≻ HPCP was observed.*

Objectivity	Hypotheses	Relationships			
Objective	**H1**	Discrete ⪰ Hybrid	Hybrid ≻ Numerical		
	p-value	0.9075	3.7e−10		
	effect size	0.7321	9.8043		
Objective	**H2**	HPCP ⪰ Coor-PCP	Coor-PCP ⪰ PS	PS ≻ PCP	PCP ⪰ MCA
	p-value	0.6726	1	0.009796	0.006119
	effect size	2.0975	1	5.1250	3.625
Mixed objectivity	**H5**	Discrete ⪰ Hybrid	Hybrid ≻ Numerical		
	p-value	0.1249	0.5		
	effect size	1.7272	1.670		
Mixed objectivity	**H6**	HPCP ⪰ Coor-PCP	Coor-PCP ⪰ PS	PS ≻ PCP	PCP ⪰ MCA
	p-value	0.0446/0.9777*	0.8511	0.2881	0.2733
	effect size	0.444	0.8681	1.3208	1.598
Subjective queries	**H9**	Discrete ⪰ Hybrid	Hybrid ≻ Numerical		
	p-value	0.5905	1		
	effect size	1.4201	0.6538		
Subjective queries	**H10**	HPCP ⪰ Coor-PCP	Coor-PCP ⪰ PS	PS ≻ PCP	PCP ⪰ MCA
	p-value	0.279	1	0.4216	0.7842
	effect size	2.1029	1	0.5604	1.3508

Table 7: P-*values and effect size for hypotheses related to timing. For* p-*values green denotes that the hypothesized relationship is maintained, while for effect size, green denotes a large effect size (≥ 0.8) using Cohen's* d *index for computing effect size [SF12, Coh13].*

Objectivity	Hypotheses	Relationships			
Objective	**H3**	Hybrid ≻ Numerical	Numerical ≥ Discrete		
	p-value	7.43e−5	0.3338		
	effect size	0.6675	0.2486		
Objective	**H4**	HPCP ≥ Coor-PCP	Coor-PCP ≻ PCP	PCP ≥ MCA	MCA ≥ PS
	p-value	0.9957	0.0065	0.9462114	0.9851
	effect size	0.0877	0.6236	0.339	0.0411
Mixed objectivity	**H7**	Hybrid ≻ Numerical	Numerical ≥ Discrete		
	p-value	0.0011	0.0757167		
	effect size	0.5969	0.3992		
Mixed objectivity	**H8**	HPCP ≥ Coor-PCP	Coor-PCP ≻ PCP	PCP ≥ MCA	MCA ≥ PS
	p-value	0.98317	0.0599	0.9947	0.2631
	effect size	0.1876	0.7094	0.0981	0.4628
Subjective queries	**H11**	Hybrid ≻ Numerical	Numerical ≥ Discrete		
	p-value	0.0205	0.8557		
	effect size	0.5388	0.1271		
Subjective queries	**H12**	HPCP ≥ Coor-PCP	Coor-PCP ≻ PCP	PCP ≥ MCA	MCA ≥ PS
	p-value	0.9919	0.1208	0.4598	0.6959
	effect size	0.2698	0.6872	0.4686	0.3978

The article has been corrected online.

Reference

[JL22] José M., Lars L. Evaluating Data-type Heterogeneity in Interactive Visual Analyses with Parallel Axes. *Computer Graphics Forum 41*, 1 (2022), 335-349.