**Grammar**

**Abstract**

~~Line 8: There should not be a comma after since~~

~~Line 23: Should be “properties” instead of “proteries”~~

**Introduction**

~~Line 26: Missing comma after “(it’s color, shape, etc.)”~~

~~Line 47: “Show varying degree” is incorrect. “degree” should be “degrees”~~

~~Line 55: Missing comma after “(Linhares, Pinto, & Nascimento, 2008)”~~

~~Line 56: Missing comma after “displayed”~~

~~Line 58: Missing comma after “method” and “method” should be plural.~~

~~Line 60: “method” should be plural.~~

~~Line 61: “method” should be plural and “involves” should be “involve”~~

~~Line 66: “to be same or different” should be “to be the same or different”~~

~~Line 72: “variability in spectra” should be “variability in the spectra”~~

~~Line 93: Missing comma after “regime”~~

~~Line 94-95: “by model” should be “by a model”~~

~~Line 98: Missing comma after “simultaneous variation”~~

**Experimental Methods-Overview**

~~Line 110: “variability of reflectance spectra” should be “variability of the reflectance spectra”~~

~~Line 115: Switches from past tense to present. “rendering” should be “rendered”~~

**Experimental Methods-Preregistration**

~~Line 166: “experiments were same” should be “experiments were the same”~~

~~Line 169: “threshold” should be plural~~

**Experimental Methods-Reflectance and Illumination Spectra**

~~Line 178: “described in previous work” should be “described in the previous work”~~

~~Line 187: “weight” should be plural~~

**Experimental Methods-Stimulus Design**

Line 227: “reflectance spectra and spectral power” should be “reflectance spectras and the spectral power”

~~Line 238: “within monitor gamut” should be “within the monitor’s gamut”~~

~~Line 239: “images was presented” should be “images were presented”~~

~~Line 240: “1100 images, 100 images each at” should be “1100 images, with 100 images at each of the”~~

**Experimental Methods-Experimental Structure**

~~Line 261: “target LRF level” should be “target LRF levels”~~

~~Line 266: “standard and comparison in a trial” should be “standard and comparison images in a trial”~~

~~Line 266: There is an extra comma after “trial”~~

~~Line 266: Pseudorandomly is one word~~

~~Line 273: “experiment at time” should be “experiment at any time”~~

**Experimental Methods-Observer Recruitment and Exclusion**

~~Line 297: “and local” should be “and the local”~~

~~Line 304: “screen for observers’ ability” should be “screen for the observers’ ability”~~

**Experimental Methods-Apparatus**

~~Line 369: “observer’s” should be plural and possessive~~

~~Line 370: “observer’s” should be plural and possessive~~

~~Line 371: “observer’s” should be plural and possessive~~

**Experimental Methods-Monitor Calibration**

~~Line 374: Should be a comma after “once calibrated”~~

**Experimental Methods-Linear Receptive Field Model**

~~Line 395-396: “image with higher noise” should be “image with the higher noise”~~

~~Line 403: “(R~~~~T~~~~Σ~~~~e0~~~~R)” shouldn’t be in parentheses~~

**Results-Background Reflectance Variation**

~~Line 443: “log squared threshold” should be “log threshold squared”~~

~~Line 444: “p-value” should be plural~~

~~Line 451-452: “external variance and intrinsic noise” should be “external variance to intrinsic noise”~~

~~Line 455: Should be a comma after “But”~~

~~Line 455: “the ratio not significantly large compared to 1, indicating” should be “since the ratio is not significantly large compared to 1, this indicates”~~

**Results-Simultaneous Variation**

~~Line 479-480: “light source” should be plural~~

**Discussion**

~~Line 525: “level” should be plural~~

~~Line 527: “effect of extrinsic started” should be “effect of extrinsic variance started”~~

Line 509: “threshold to amount” should be “threshold to the amount”

Line 510: “variance in extrinsic” should be “variance in the extrinsic”

**Table S3**

~~Line 569: “Experiment 9” should be “Experiment 8”~~

**Figure 11 Caption**

Line 641: Extra “for” in “condition for (Figure 9) for the light condition”

**Comments**

**Experimental Methods-Observer Information**

Observer fun, from experiment 8, is the same as observer content, from experiment 7 and 8. I forgot the pseudo-name during experiment 8 so I gave a new one. The names are different, but they are the same person.

[VIJAY : It seems you have already made this change. The issue is that the data files and the codes will have to be changed too. Otherwise, if someone looks at the data they will be confused. Or somewhere we need to mention this change in the data/code.]

**Introduction**

Every heading except the introduction heading has a gap between it and the text.