

## Review of "Valence moderates the effect of stimulus-hand proximity on conflict processing and gaze-cueing"

This paper reports an investigation of performance measures associated with hand proximity effect, and affective gaze cues in a Simon task. Both RTs and error rate were computed and analyzed. The authors found the interaction of valence x cue congruency x hand proximity and the interaction of valence Simon compatibility x hand proximity. This is an interesting topic. However, I believe there are a few things that could be addressed to improve the overall quality of the paper.

### Overall

This paper covers a number of topics, including hand proximity effect, Simon effect, gaze cueing effect, and emotional valence. However, they are pulled together in a single paper, without a strong clear story pulling them all together. It would be helpful for readers if the authors could provide a clearer story for why they looked at all these things together.

### Introduction

Line 94: What do the authors mean by “a top-down influence”? Please elaborate more the “a top-down influence”

Line 108: Please make it clearer the reason why the author focused on emotional or affective valence.

Line 156: The hypotheses are overly simplified. Please clarify the hypotheses for follow up contrasts for interaction.

### Method

Line 161: The authors state “32 health subjects participated in the study, which is a sample size common on this research area.” Can the authors provide some power analysis indicating their study was sufficiently powered to detect differences between these conditions?

### Results

Are there any data (e.g. questionnaire) on whether the participants experienced the gaze cues (angry, neutral) as motivationally different?

### Discussion

P398: What do the authors mean by “negative valence”? Do the authors have any data (e.g. questionnaire) available for angry gaze cue? (see also above comments)