

# Errata to “Understanding Multimodal User Gesture and Speech Behavior for Object Manipulation in Augmented Reality Using Elicitation”

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ALL time information was reported as milliseconds but given as 100ths of a second.

Additionally, the time differences between gesture initiation and speech initiation were reported as being 60% of their actual value. This resulted in those time differences being reported as 6 times less than they were (e.g., 130ms should be 780ms).

These corrections do not impact the conclusions drawn in the paper. The following list outlines the locations of the times being incorrectly reported, the times that were reported, and the corrected times.

- Abstract, 130ms, 780ms
- Section 5.4.4, M = 151.31, 907.86
- Section 5.4.4, SD = 120.24, 721.44
- Section 5.4.4, Median = 130, Median 780
- Table 8 Gesture mean, 282, 2820
- Table 8 Speech mean, 287, 2870
- Table 8 Gesture and Speech mean, 323, 3230
- Table 8 Gesture SD, 158, 1580
- Table 8 Speech SD, 158, 1580
- Table 8 Gesture and Speech SD, 186, 1860
- Section 6.2 paragraph 5, 130 milliseconds, 780 milliseconds
- Section 7 paragraph 4, 130 milliseconds, 780 milliseconds

## REFERENCE

- [1] A. S. Williams, J. Garcia, and F. Ortega. “Understanding multimodal user gesture and speech behavior for object manipulation in augmented reality using elicitation” *IEEE Trans. Vis. Comput. Graphics*, vol. 26, no. 12, pp. 3479–3489, Dec. 2020.

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