

ERRATUM

Erratum Date: 26 January, 2017

Correction Requested by: T. Iwasa and T. Hashimoto, authors

Date of Request: 25 January 25, 2017

Iwasa, T. and Hashimoto, T., "Study of Reproducibility of Pedal Tracking and Detection Response Task to Assess Driver Distraction," *SAE Int. J. Trans. Safety* 3(2):2015, doi:10.4271/2015-01-1388.

History:

1. On page 111, the authors have described a method to assess driver distraction. In this method, participants maintained a white square size on a forward display by using a game gas pedal of like in car-following situation. The size of the white square is determined by calculating the distance to a virtual lead vehicle. The formulas to correct are used to explain variation of acceleration of the virtual lead vehicle. The authors inadvertently incorporated old formulas they had used previously. In the experiments discussed in the article, the corrected formulas were used. Therefore, there is no change in the results. The following from the article:

$$f_1(t) = 0.2 \cdot \sin\left(2\pi \cdot \frac{1}{5}t - 2\pi \cdot rnd_1\right)$$

$$f_2(t) = 0.075 \cdot \sin\left(2\pi \cdot \frac{3}{40}t - 2\pi \cdot rnd_2\right)$$

(*rnd*: Random value between 0 – 0.99)

The acceleration of the participant's vehicle was varied from -0.04 m/s^2 to $+0.06 \text{ m/s}^2$ linearly as a function of the angle of the gas pedal with a 1-second delay.

Should be replaced with the corrected copy below (bold indicates correction):

$$f_1(t) = \mathbf{0.025} \cdot \sin\left(2\pi \cdot \frac{1}{5}t - 2\pi \cdot rnd_1\right)$$

$$f_2(t) = \mathbf{0.0375} \cdot \sin\left(2\pi \cdot \frac{1}{20}t - 2\pi \cdot rnd_2\right)$$

(***rnd_n***: Random value between 0 – 1)

The acceleration of the participant's vehicle was varied from -0.04 m/s^2 to $+0.06 \text{ m/s}^2$ linearly as a function of the angle of the gas pedal with a **0.1**-second delay.

2. On page 115, the following words in the 5th paragraph of "DISCUSSION":

As for Item 2, the interaction between Visual Touch and Auditory Speech was not significant in Visual Touch and Auditory Speech.

Should be corrected to read:

As for Item 2, the interaction between **environment and difficulty** was not significant in Visual Touch and Auditory Speech.