

## Continuity of Tactile Walking Surface Indicators and Audible Pedestrian Signals at Crosswalks

Professor Shoichiro, Fujisawa



Figure 1. Indoor laboratory

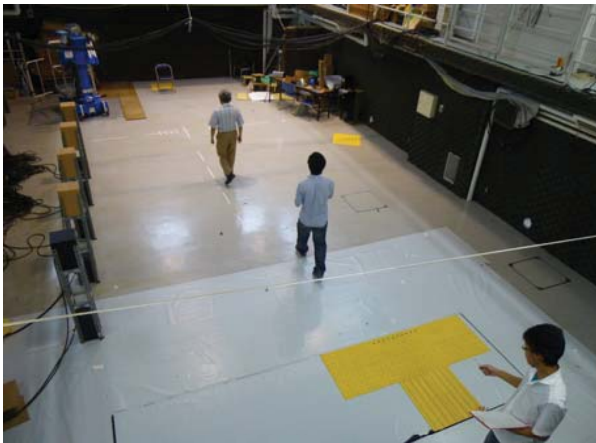


Figure 2. Actual experiment scene.

### Content:

Crossing an intersection is one of the most risky actions for a visually impaired person. A visually impaired pedestrian is guided to the crosswalk entrance by the tactile walking surface indicators "TWSIs". It is then important that he/she safely and smoothly cross the intersection using the audible pedestrian signal. However, neither connectivity nor the continuity between the TWSIs and the audible pedestrian signal travel support systems has been verified. The purpose of this research is to verify this connectivity and continuity.

Figure 1 shows the floor exchange apparatus which can do the evaluation experiment of the TWSI's in the laboratory. The laboratory provided a soundproof and shaded structure consisting of the walls and ceiling. This laboratory facilitates safe and reproducible experiments. This laboratory can reproduce a crosswalk and an intersection. Figure 2 presents the photograph of experiment by the subject. The group of the speaker in the right of Figure 2 reproduces the noise in an actual intersection. It should be possible to acquire basic scientific data for developing guidelines from the findings of this research.

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E-mail: <s-fuji@eco.tokushima-u.ac.jp>

Tel. <+81-88-656-7537>

Fax: <+81-88-656-2169>

HP : <http://www.me.tokushima-u.ac.jp/aelab/>

