

Integrated research on quantitative evaluation of human perception for shaking and its application

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Research Area

We aim to quantitatively evaluate the effects of visual effects on human perception, and perception for various types of shaking using experiments combining VR system, three-dimensional shaking table, and biological response measurements.

- (1) Quantitative evaluation of the amplification of vibration sensation by visual effects.
- (2) Elucidation of factors influencing human sensation.
- (3) Quantitative evaluation of human perception.

VR system and shaking table experiment and biological response measurement



Quantitative evaluation of amplification of vibration sensation by visual effects



Elucidation of factors influencing sensory perception



Quantitative evaluation of human perception

Recent Activities

- AIJ, "Damping and Vibration of Buildings", 2020. (in Japanese)
- AIJ, "Structural Design Concepts for Seismically Isolated Buildings Against Extreme Ground Motions", 2020. (in Japanese)
- Suzuki M., Yoshida H., Yana K., Tajiri N., Asakawa K., "Changes in Positive Mental States and Heart Rate during Workcation," 45th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2023.