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## Pile volume measurement by range imaging camera in indoor environment

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Keywords: Range Imaging Camera, Volume Computation, Indoor Measurement

**Abstract.** Range imaging (RIM) camera is recent technology in 3D location measurement. The new study areas have been emerged in measurement and data processing together with RIM camera. It has low-cost and fast measurement technique compared to the current measurement techniques. However its measurement accuracy varies according to effects resulting from the device and the environment. The direct sunlight is affect measurement accuracy of the camera.

Thus, RIM camera should be used for indoor measurement. In this study gravel pile volume was measured by SwissRanger SR4000 camera. The measured volume is acquired as different 8.13% from the known.

[Conference Paper](#) (PDF, 445 KB)

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