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Development of Tunnel Displacement Measurement by 3D Laser Scanner

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In the mountain tunnel, tunnel displacements have been measured using a threedimensional measure-ment system to evaluate for the behavior of the ground near the face.However it is difficult to grasp the three dimensional behavior of the ground.

3D laser scanner can measure in detail the shape of the tunnel wall.Therefore, in recent years,3D laser scanner has been used for progress control of working form.This paper describes the study of tunnel dis-placement measurement system by 3D laser scanner.

[出典] 湯本健寛,河邉信之,黒台昌弘:三次元レーザースキャナを用いたトンネル変位計測技術の開発,トンネル工学報告集 第22巻, pp. 205-208, 土木学会, 2012.11