SSS34-03   Room:502   Time:April 29 09:30-09:45

Interpretation of an illegible old stone inscription by SfM image analysis at Itsukushima shrine, Nojimazaki

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This study shows that interpretation the illegible old stone inscription by structure from motion (SfM) image analysis. The stone monument built in 1927 for memorial on the 1923 Taisho Kanto Earthquake, the inscribed capitals can hardly read. We captured 158 photographs on the surface of the stone, and processed by SfM to generate 3 D model of it. As a result, illegible capitals became clear on the 3 D model, so visible coated contamination removed by SfM. It is effective method to archive stone inscriptions.

Keywords: structure from motion (SfM), stone inscription, interpretation, historical natural hazard, Nojimazaki