Kinetic Detection with the Aids of Motion Simulator

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ABSTRACT:

Precise measurement with surveying instrument is very important in deformation detection. Kinetic detection with real time movement's visualization obviously provides critical figures to relevant professional for their decision making. The quality assurance of these data are traditionally depended on instrument specification, its calibration result and surveyor measurement performance. In order to evaluate this quality assurance process, a motion simulator with stable kinetic moving velocity was design and used to justify the surveying students detection ability with GPS, survey robotic and manual observation with total station. The design of this motion simulator is presented in this paper. The measurement outcome with motion simulator proved precise kinetic detection is possible for surveying students.