

APPLICATION OF AUGMENTED REALITY TECHNOLOGY FOR OBJECT LENGTH MEASUREMENT APPLICATIONS

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ABSTRACT

Length measurement is an activity to determine the length value of an object, surface or other object. The measurement process generally requires conventional length measuring tools such as a ruler or ruler, tape measure, or calipers. Length measurements will experience problems when conditions do not allow the use of conventional measuring instruments so that the measurement process becomes ineffective or cannot even be carried out. Augmented Reality is a technology that allows users to see the real world combined with virtual objects with the real world remaining as the main environment. This technology also allows the length measurement process to be carried out using virtual objects as measurement markers and provides high precision in the real-time measurement process, so that the length measurement process can be carried out without the help of conventional length measuring instruments. The results obtained are that this length measurement application can be run by relying on virtual objects in the form of points that are placed and then connected with lines to obtain information in the form of values from these measurements. With an average accuracy level of 98.03%, this length measurement application can be used as an alternative medium for the length measurement process.