

ABSTRACT

DESIGN AND BUILD APPLICATION OF RECOGNITION OF TRADITIONAL WAYANG KULIT MUSIC INSTRUMENTS BASED ON AUGMENTED REALITY USING MARKER-BASED TRACKING METHOD

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With the development of science and technology, traditional musical instruments are starting to be abandoned. One of the factors is the ease of playing modern musical instruments, and conventional musical instruments are also rarely found in everyday life. With the progress of today's era, AR (Augmented Reality) technology was born. The way Augmented Reality works is by scanning a sign or marker. This research aims to build an application with augmented reality technology to introduce traditional shadow puppet musical instruments. This research was designed using the MDLC (Multimedia Development Life Cycle) method. Testing the application using BlackBox testing on 2 smartphones with different specifications shows that both smartphones can run the application properly. Then for testing the application using the heuristic evaluation method carried out by an expert with the highest severity rating value on the visibility of system status with a value of 0.625. The result of this research is the application of traditional shadow puppet musical instruments based on augmented reality, which is expected to be used to introduce traditional shadow puppet musical instruments.

Keyword : Augmented Reality, FAST Corner Detection, Traditional Musical Instruments, MDLC, Unity.