Humanities Edge Archive Faculty Programs   Humanities Edge Archive

6-11-2019

Outcome Evaluation Metrics: 3D and Augmented Reality (AR) Learning Modules for Ancient Civilization Represented Visually in Rock-cut Buddhist Caves in Yungang, China

The Humanities Edge

Recommended Citation

Title: "3D and Augmented Reality (AR) Learning Modules for Ancient Civilization Represented Visually in Rock-cut Buddhist Caves in Yungang, China."

Expected Outcome:

- A prototype of a virtual 3D and AR interactive learning tool for the selected Yungang Cave in Shanxi Province, China;
- A comprehensive compilation and recording of related historical background information and events in English and Chinese;
- A researched and well-documented digital archive for the selected Yungang Cave in Shanxi Province, art and history;
- A 3D/AR digital exhibit of the selected Yungang Buddhist art at both FIU and Miami Dade Campuses

Evaluation Metrics

Objectives	Metrics	How is it measured	When
Develop a prototype 3D and AR learning tool for the selected Yungang Cave	1) Point cloud 3D model of selected Buddha statues; 2) AR production with multi-media content for up to two large wall mural paintings of Yungang caves	Number of 3D scans and images of mural paintings; Tracking user statistics online	One year from project starting date, estimated August 2020
Research and compilation of existing Yungang related materials	1) Gather narratives, pictures, and/or videos from public domain; 2) Translation of researched materials from Chinese to English	Number of researched and compiled items or objects embedded within the AR learning tool; Tracking number of hits to these objects online	6 months from project starting date, estimated February 2020

Public engagement and promotion of the tools to students and community	Two physical exhibits at both FIU and MDC campuses	Number of attendees to the events	One year from project starting date, estimated August 2020
Curriculum Development	Inclusion and introduction of the AR web/mobile learning tools in two of Dr. Lidu Yi's current courses offered at FIU	Number of students who used the learning tools; Feedback from the students	Continuous beyond project funding period