HoloARt Video Showcase: Painting with Holograms in Mixed Reality



Figure 1: 3D representations of different textures are created in real time using mixed reality. The user can paint in the air using the tip of the index finger.

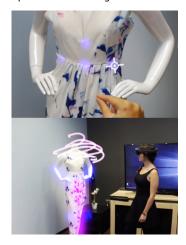


Figure 2: The user can spray paint on top of the physical space using the pinch gesture.

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Abstract

We propose *HoloARt*, a new media art that explores the use of holograms in mixed reality for creative self expression. We designed a system that allows the user to turn their physical environment into a canvas where digital holograms and physical objects co-exist in the real and virtual world. Users are able to virtually spray and splatter *hologram paint* on top of physical objects and surfaces as well as painting in the air by only using their hands. The content grows dynamically, following the natural movements of the user. The system is self-contained and does not require hand controllers or positional tracking sensors on the space. This video accompanies our CHI paper and Art Installation [1].

Author Keywords

Interactive Media Art; Mixed Reality; Art Exhibition; Digital Art; New Media; Holograms; Performance Art; Interaction; Interdisciplinary; Installation

ACM Classification Keywords

H.5.m. Information interfaces and presentation: Miscellaneous

References

 Amores J., Lanier J. 2017. HoloARt: Painting with Holograms in Mixed Reality. In *Proc. of CHI 2017*. http://dx.doi.org/10.1145/3027063.3050435