



Together We Go Farther

Editing Reality: Empowering Users to Manipulate Reality through Addition, Erasing, and Modification with speech to prompt in Mixed Reality.

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Abstract

Contributions

We present a Mixed Reality system called Editing Reality, which integrates multiple Generative A.I. (GenAI) models. We have identified three functions: Addition, Erasure, and Modification. These functions are employed to add generated objects to the real environment, hide or subtract actual objects, and alter the real environment. Through the combination of GenAI and Editing Reality, users gain the capability to virtually manipulate reality in real-time with their speech. We conducted a pilot workshop with 14 participants to gather their thoughts. Our results show the potential usage of Editing Reality for interior design, prototyping for products, accessibility use, and also the exploration of security issues in MR.

System Design

Implementation

interaction

Scenarios