

Augmented Reality: Redefining Human-Computer Interaction

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Abstract. Augmented reality (AR) is reshaping human-computer interaction by overlaying digital content onto the physical world. This article explores the applications of AR in various fields, such as education, healthcare, and entertainment. We discuss the technological advancements driving AR development and the challenges of creating seamless and immersive AR experiences.

Keywords: Augmented Reality, Human-Computer Interaction, Digital Overlay, Immersive Experience, User Interface

Introduction

Augmented reality (AR) represents a frontier in human-computer interaction, merging the physical and digital worlds to enhance user experiences. By overlaying digital information onto the real environment, AR has the potential to transform industries ranging from education and healthcare to entertainment and retail. This article examines the current state of AR technology, exploring applications that demonstrate its versatility and potential impact. We also discuss the challenges involved in creating seamless AR experiences, including issues of hardware limitations, user interface design, and content integration. As AR technology continues to evolve, it promises to redefine the way we interact with the world around us.

This is a preliminary version. To read the full version of the article, please purchase a subscription.

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