

Augmented Reality in Vocational Training

Jordan Parker
PhD
University of Helsinki
Yliopistonkatu 4, 00100 Helsinki, Finland

Drew Lopez
PhD
University of Oslo
Problemveien 7, 0315 Oslo, Norway

Pat Martin
PhD
Tsinghua University
Haidian District, Beijing 100084, China

Abstract. This article investigates the use of augmented reality (AR) in vocational training, highlighting its potential to enhance skill acquisition and retention. By overlaying digital information onto the physical world, AR can create interactive learning environments. The paper reviews various AR applications in vocational education, assessing their impact on training outcomes. Challenges such as technology adoption and cost are also considered. The findings suggest that AR can significantly improve vocational training by providing hands-on learning experiences.

Keywords: augmented reality, vocational training, skill acquisition, interactive learning, technology adoption

Introduction

Augmented reality (AR) has emerged as a powerful tool for enhancing vocational training by providing learners with interactive and engaging environments. This paper explores the application of AR in vocational education, focusing on its ability to improve skill acquisition and retention. We review several case studies where AR has been successfully implemented in training programs, demonstrating its effectiveness in providing hands-on learning experiences. Despite the promising benefits, challenges such as the cost of technology and the need for widespread adoption must be addressed to fully leverage AR's potential in vocational training. As AR technology continues to advance, it offers exciting possibilities for transforming traditional training methods and enhancing learner outcomes.

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

References

1. Адамбаева, Ж. И. (2020). Наука, новые технологии и инновации Кыргызстана. НАУКА, НОВЫЕ ТЕХНОЛОГИИ И ИННОВАЦИИ КЫРГЫЗСТАНА Учредители: ОО" Общественная Академия ученых Кыргызской Республики", (10), 137-141.
2. МАМАЖУСУПОВА, М., & ЛУТФИЛЛА, У. С. И. АРАБАЕВ АТЫНДАГЫ КЫРГЫЗ МАМЛЕКЕТТИК УНИВЕРСИТЕТИНИН ЖАРЧЫСЫ. И. АРАБАЕВ АТЫНДАГЫ КЫРГЫЗ МАМЛЕКЕТТИК УНИВЕРСИТЕТИНИН ЖАРЧЫСЫ Учредители: Киргизский государственный университет им. И. Арабаева, (1/1), 555-564.
3. Eldar, N. Z. (2023). Creatividad estudiantil en la educación superior y su importancia. Revista Universidad y Sociedad, 15(3), 68-77.