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Construction of VR/AR Smart Cloud Space based on 5G Network Environment in Education

Yayi Gao, Ling Li

Affiliation: Yizhou Primary School of Chengdu Hi-tech Zone, Chengdu, Sichuan, China

Address: 32 Sheng Zhi Jie, Wuhou District, Chengdu 610212, Sichuan, China

Correspondence to: Yayi Gao, E-mail: 875389589@qq.com; Ling Li, E-mail: 875389589@qq.com

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With the emergence of the “5G+education” era, research on its application is mostly theoretical and lacks practical depth, making application research costly. This study aims to integrate school, third-party enterprises, and other resources to explore the joint building of specific application scenarios for “5G+education” in schools. The 5G VR/AR smart cloud space is a smart education experience scene that combines relevant teaching resources with teaching scenes through cloud rendering using virtual reality technology (VR) and augmented reality technology (AR). The high-speed and low-delay features of the 5G network and the support of cloud rendering technology enable students to experience virtual reality scenes through VR head-mounted displays while in the classroom, enhancing learning engagement. This study explores the application of 5G technology in primary school financial literacy education, studying its impact on environmental construction, resource application, curriculum development, and learning modes. Through theoretical and practical research, this study promotes education informatization development at the school and regional levels, benefiting students and teachers alike.

Keywords

5G, VR/AR, Smart Cloud Space, Elementary Education

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