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A LITERATURE REVIEW ON PRIVACY AND SECURITY IN VIRTUAL REALITY AND AUGMENTED REALITY

As technologies become more advanced and powerful each day, the progression towards embracing virtual reality environments in our daily activities become more real, and subsequently, the boundaries between virtual and physical worlds more in question. However, several issues continue to persist as the world around us changes – privacy and security. In this paper we are going to analyze in detail, the newer virtual reality (VR) and augmented reality (AR) applications, the privacy risks associated with these environments, current solutions – their benefits and challenges as well as potential newer solutions which can be implemented to increase privacy protection.

There is a great need for privacy and security literature review in virtual reality and augmented reality, not only because it is the present and certainly a future of almost all digital connection, but also there is a huge literature information gap between different recent case studies, journals, and much scientific research. The intention of this paper is to generate comprehensive literature review work which will make so much easier for anyone trying to study or analyze the progress of this topic in one paper.

Furthermore, to protect not only properly and effectively the safety of the virtual reality (VR) users' private information, but also improve the overall measures used to control privacy – security in these virtual environments will be also analyzed and evaluated based on the current existing literature reviews and concepts.

Keywords: Virtual Reality, Augmented Reality, Privacy, Security