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THE ROLE OF METAVERSE IN THE FUTURE OF THE SPACE SECTOR

Abstract

The Metaverse is an integration of immersive presence in a virtually interactive self-sufficient ecosystem of mobile networks, augmented reality (AR), social media, extended reality (XR), gaming, virtual reality (VR), ecommerce, cryptocurrency, and work environments. Digital technology is changing the way that people work and think. The world has become increasingly connected and digital by leveraging computer network technologies which at times have been disruptive, creating huge gains developed over a short period of time not thought possible. Rapid evolution of the space sector has occurred through the implementation of several disruptive technologies. It is clear, that the Metaverse is the next disruptive technology that will produce a revolution in many fields, including aerospace. As the next generation digital experience, the Metaverse's application to all aspects of the aerospace business is on the verge of being implemented. It can bring space activities and space education to everyone with an internet connection. With progress of activities such as education, medicine, gaming, economy among others, there is a need to explore the connection between them and society, observing not only those tangible aspects but also the interaction between the users, making room for all areas to study its interactions, leading to psychological and social aspects as important as the technical ones. This International Space University Team Project was designed to assess the current use of the Metaverse in all aspects of the aerospace business and to create a vision for its future use and implementation to ensure that an international, interdisciplinary, and intercultural space environment flourishes well into the future.