Augmented Reality

The speaker claims, "Augmented reality is an enhanced version of the real physical world that is achieved by different sensory stimuli" [1]. He began explaining the various use cases of augmented reality in the fields of fashion, education, healthcare, etc. For each of these use cases, he illustrated the capabilities of augmented reality by showing various mock-up videos and provided different real-world examples to validate his claims.

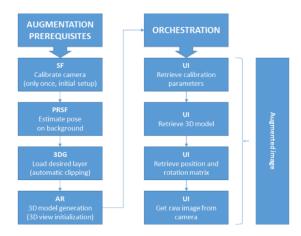


Figure 1: Augmented Reality Geo-visualisation for Underground Utilities [7]

Quantum computing

Talia [2] attempted to explain quantum computers to various age groups. For each age group, Talia began by presenting or asking questions related to topics that were relatable to the specific age group and connected to quantum computing. Once the individuals grasped the context of quantum computing, she delved deeper into the topic.

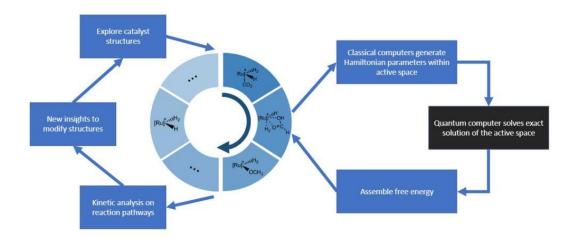


Figure 2: State-of-the-art algorithm accelerates path for quantum computers to address climate change [8]

References

- [1] The future of augmented reality: 10 awesome use cases. (Sep. 21, 2021). Accessed: Oct. 8, 2023. [Online Video]. Availability: https://www.youtube.com/watch?v=WxzcD04rwc8
- [2] WIRED, Quantum Computing Expert Explains One Concept in 5 Levels of Difficulty | WIRED. (Jun. 25, 2018). Accessed: Oct. 8, 2023. [Online Video]. Availability: https://www.youtube.com/watch?v=OWJCfOvochA
- [3] A. Tolani, "Why augmented reality is one of the most promising experimental technologies of this decade," *Forbes*, Feb 6, 2023. [Online]. Available: https://www.forbes.com/sites/why-augmented-reality. [Accessed: Oct 8, 2023].
- [4] M. Bowera, C. Howeb, N. McCredieb, A. Robinsona and D. Grover, "Augmented reality in education cases, places and potentials," in *Educational Media International* [Online], vol. 51, no. 1, pp. 1-15, Nov 24 2013. Available: http://dx.doi.org/10.1080/09523987.2014.889400
- [5] A. Banerjee, A.Ghosh and M. Das, "Design of a novel signed binary subtractor using quantum gates," in *Tech science press* [Online], pp. 121-133, July 3 2023. Available: https://doi.org/10.32604/jqc.2022.034059
- [6] E. T. Campbell, "Enhanced fault-tolerant quantum computing in d-level systems," in *American Physical Society Journals* [Online], vol. 113, no. 23, article 230501, Dec 3 2014. Available: https://journals-aps-org.ezproxy.library.dal.ca/prl/abstract/10.1103/PhysRevLett.113.230501
- [7] "Augmented reality geo-visualisation for underground utilities", *Springer Link*, Available: https://link.springer.com/article/10.1007/s41064-020-00108-x, [Accessed: Oct 8, 2023].
- [8] M. Troyer, "State-of-the-art algorithm accelerates path for quantum computers to address climate change", *Microsoft Research*, Available: https://www.microsoft.com/en-us/research/blog/state-of-the-art-algorithm/, [Accessed: Oct 8, 2023].