Course Description

The goal of this course is to familiarize students with virtual reality simulations in geopolitics, conflict resolution, emergency response, defense, healthcare, and homeland security. The course is a survey of simulations in these domains. Students will also learn how to review simulations using the DScan+ software and Unity.

Course Goals

The goal of the course is to familiarize students with virtual reality simulations.
Grading
Active participation: 20%

Project: 80% (due last day of class)

Teaching Assistant
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Additional Notes

Reading assignments:

What is VR training
What is VR training? A guide to immersive learning | Ultraleap

A Review on Virtual Reality Skill Training Applications
Frontiers | A Review on Virtual Reality Skill Training Applications (frontiersin.org)

History of VR - Timeline of Events and Tech Development
History of VR - Timeline of Events and Tech Development (virtualspeech.com)

The 10 Best Examples Of The Metaverse Everyone Should Know About
The 10 Best Examples Of The Metaverse Everyone Should Know About (forbes.com)

Virtual reality-based conflict resolution: The impact of immersive 360° video on changing viewpoints and moral judgment in the context of violent intergroup conflict
https://journals.sagepub.com/doi/full/10.1177/1461444821993133

Virtual and augmented reality technologies for emergency management in the built
environments: A state-of-the-art review

Virtual and augmented reality technologies for emergency management in the built environments: A state-of-the-art review - ScienceDirect

Virtual and Augmented Reality in the Disaster Management Technology: A Literature Review of the Past 11 years

Frontiers | Virtual and Augmented Reality in the Disaster Management Technology: A Literature Review of the Past 11 years (frontiersin.org)

The Ethics of Immersive Journalism A rhetorical analysis of news storytelling with virtual reality technology


Learning Empathy Through Virtual Reality: Multiple Strategies for Training Empathy-Related Abilities Using Body Ownership Illusions in Embodied Virtual Reality


A systematic review of Virtual Reality in education

https://www.learntechlib.org/p/182115/

Dialing up the danger Virtual reality for the simulation of risk

https://www.frontiersin.org/articles/10.3389/frvir.2022.909984/full

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Reading List

Please see list above.