Abstract

Virtual Reality [VR] is the first step in connecting a human and virtual environment to give a feel of adventure or exposure to landscape of the imagination. It prominence’s the digital world and produces immersion or half immersion. Virtual reality, where Design, Dexterity, Science, Art meets to create a radical inventions/ experience. It can cover or combine feel, presence, and touch. Haptics includes software simulation and hardware accessories, where human haptic glove with FSR sensors controls and interacts with a robotic arm with flex sensor
as a result, producing vibration or motion in hand. Flex sensor covert the motion of hand to signals and transfers it to the FSR sensor, which converts the signals back to motion (feel). The application of virtual reality is in the field of Defense related and Medical application.

References

- Kiran K, Abhijit M, V. K. Parvati &quot;Virtually Controlled Robotic Arm using Haptics&quot; IEEE 2017
- Ahmed R. J. Almusawi, L. Canan Dülger, Sadettin Kapucu, &quot;Robotic arm dynamic and simulation with Virtual Reality Model(VRM)&quot;; IEEE 20 October 2016
- Olga De Troyer, Frederic Kleinermann, Bram Pellens, and Wesley Bille, &quot;Conceptual Modeling for Virtual Reality&quot;; CRPIT, conference paper on virtual reality.
- Vildan Tanriverdi and Robert J. K. Jacob &quot;VRID: A Design Model and Methodology for Developing Virtual Reality Interfaces&quot;;
- Stephen Brewster &quot;The Impact of Haptic Technology on Cultural Applications&quot;;

Index Terms

Computer Science Information Science

Keywords

Virtual Reality Haptics Blender Unity Object Modeling Rendering Flex Sensors