Virtual Reality Training for Self-Mitigating Hand Tremors

Published date: April 12, 2018

Technology description

Executive Summary
Every individual exhibits some degree of hand tremors simply due to human physiology. While this does not typically affect daily routines even the slightest tremor is significant in fields requiring millimeter-level precision, such as eye surgery. This MSU-developed technology allows for persons to practice their hand manipulation skills in an environment free of consequences and train themselves in whichever manner suits them best.
Description of Technology
Using a Virtual Reality (VR) headset and controllers, this technology allows for users to see their natural hand tremors magnified in virtual space. While observing the tremors more easily, one may adjust their position and support to suit their unique demands. Instead of controllers, the appropriate hardware may be mounted to another tool such as forceps. While this technology was designed with microsurgery in mind, this technology is appropriate for anyone looking to improve their stability and precision.

Application area

Industry training
Healthcare training
Physical Therapy

Advantages

Non-Mechanical solution
Appropriate for medical training, physical therapy
Low cost

Institution

Michigan State University

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