ABSTRACT

Surgical teaching auxiliary system using virtual reality and method thereof are disclosed. In the Surgical teaching auxiliary system, virtual-reality surgical environment is created through three-dimensional reconstruction based on a two-dimensional surgical image, and an operation step, a time point of using instrument and a reference message are preset in advance; when a surgical training is performed in the virtual-reality surgical environment, a surgical operation behavior is continuously detected; when the surgical operation behavior abnormally interrupted or delayed is detected, an auxiliary support and guidance are triggered based on a progress of the surgical training, thereby achieving the technical effect of greatly improving the effectiveness of surgical learning in the virtual reality.

[FIG. 1]