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Utility of Medical AR & VR

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The standardization of medical 3D technology is urgent needs for designing medical devices that use 3D models and printings, for evaluating the stability of medical instruments that use the 3D printing, or for evaluation of hardware and software producing or using medical 3D models and printed material. Therefore, our working group sponsored by the IEEE Computer Society, Practical Applications of 3D Medical Modeling, investigates technical standards for medical 3D images, which include medical 3D modeling, visualization, simulation, data management.

A complete medical AR/VR for medical practice has 3 steps: 1) Pre-operative virtual planning of the clinical work, 2) CAD/CAM of medical instruments, and 3) computer-aided practice. This presentation will be regarding the issues of standard Medical Modeling and Printing for it.

Key Words : Medical 3D, Modeling, Printing, stl