TECH OFFER

A Method of performing Automatic Image Registration

▶ MORE INFORMATION

MEGA-TREND
- Healthcare

TECHNOLOGY READINESS LEVEL (TRL)
- TRL 4

PATENT/ GRANTED NUMBER
- PI 2019001717

▶ TECHNOLOGY OVERVIEW

A method of performing automatic image registration for image guided surgery (IGS) is provided, the method including the steps of positioning a camera such that the patient's face is visible to the camera, providing an initial guess of the patient's head location by matching key facial landmarks on a rendered medical image to the patient's face, scanning the facial surface area of the patient based on the initial guess, generating a registration point cloud based on the facial surface area used for 3D curvature and surface matching, wherein the facial surface area that is visible provides a minimum of three facial landmark points in the registration point cloud for accurate surface matching.

CONTACT US!

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