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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.

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Method and Kit For Simultaneous and Rapid Detection of Prawn Viruses



▶ MORE INFORMATION

MEGA-TREND

- **Healthcare**

TECHNOLOGY READINESS LEVEL (TRL)

- **TRL 8**

PATENT/ GRANTED NUMBER

- **PI 2016001031**

▶ TECHNOLOGY OVERVIEW

In one aspect of the invention, there is provided a method for detecting at least two prawn viruses in a prawn sample, comprising the steps: extracting the DNA and/or RNA from the sample, amplifying the DNA and/or RNA via two or more primer sets, each primer set containing different oligonucleotides, and identifying at least two prawn viruses; characterized in that each primer set comprises at least 6 nucleic acid sequences selected from the sequence groups represented by SEQ ID NO: 1-6, SEQ ID NO: 7-12, SEQ ID NO: 13-18, SEQ ID NO: 19-24, SEQ ID NO: 25-30, SEQ ID NO: 31-36, SEQ ID NO: 37-42 and SEQ ID NO: 43-48 of the Sequence listing.

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