Image-Guided Placement of Implants

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Technology description

The University of Texas at El Paso seeks a partner for licensing an image-guided medical device placement system.
The system automatically obtains anatomical data about a site and uses the data to accurately place a device or implant. Produces precise and reproducible data for use in medical procedures, including surgical implantation, tumor detection, pedicle screw insertion. Accurately determining implant placement using optimum trajectory, diameter, depth or placement. Patient-specific data alleviates injuries from improper device insertion or placement. Patents issued.

Application area

Medical
Surgical procedures
Tumor detection
Pedicle screw insertion

Advantages

Cost-effective image guiding of pedicle screws
Produces precise and reproducible implant placement data
Automatically obtaining patient-specific anatomical data for precise implant placement

Institution

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