

Laparoscopic Training Environment

Computerized haptic and graphic rendering system that not only provides surgeons with tactile and visual feedback on the simulated tasks they are performing, but also incorporates a 'guiding hand' system to mentor surgeons, and assessment metrics to measure performance.

Applications

Primarily designed for medical and dental applications, the technology can also be used for other applications that require visual and tactile feedback.

Advantages

- 'Guiding hand' system enables learners to emulate actions of highly skilled practitioners;
- Provides dramatic increase in training opportunities for surgeons;
- More cost-effective than the use of cadavers;
- Avoids ethical dilemmas of using animals;
- Valuable to the growing fields of minimally invasive surgery and computer assisted surgery.

Development Stage

A working prototype is being developed and tested.

Inventors

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Intellectual Property Status

Copyright and Trade Secret.

Partnering Opportunity

Available for collaboration and licensing.

Contact

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